APPENDIX IV

40. TERMINAL STATUS INFORMATION

- 40.1 <u>General</u>. This appendix defines the status information contained in the IU that is available for transfer to the Host upon request.
- 40.2 <u>Status Data Word Blocks</u>. The Terminal Status Data Word Blocks are specified in 40.5.1 through 40.5.30 and in Table IV-I. This appendix is used for Terminal Status data for the F-15, Army, E-3, Navy Shipboard, Navy Airborne and MCE Terminals. Any unique F-15 or Army Terminal Status data is provided within this appendix and is shown by various "NOTES" throughout. Some unique Navy Shipboard and Navy Airborne Terminal Status data is provided within this appendix. Additional unique Navy Shipboard and Navy Airborne Terminal Status data is provided in Appendix VIII. Unique E-3 Terminal Status data is provided in Appendix X. Unique MCE Terminal Status data is provide in Appendix XI.

40.3 Terminal Status Data Information.

- 40.3.1 Operational requirements. Selected Status Information will be provided to the Host via Terminal Output Message No. 1. A capability, specific to Navy Shipboard and Navy Airborne, will be retained so that selected memory locations can be interrogated via Terminal Input Message 16 and Terminal Output Message 28 as defined in 80.1.4. That capability will also be available to the ICP for Navy Ship Only and SACP for Navy Air Only.
- 40.3.2 <u>Interface requirements</u>. The MIL-STD-1553 multiplex bus can be used to convey memory location and status block interrogations. For Navy Shipboard and Navy Airborne, the data transfer is accomplished via Terminal Input Message Number 16 and Terminal Output Message Number 28 as defined in 80.1.4.

Each word is transmitted with Bit "15" being the first bit transmitted. For the numerical parameters illustrated on the following pages the bit values are assigned such that the MSB of any field is the bit transmitted first.

For <u>Navy Air Only</u>, the SACP or for <u>Navy Ship Only</u>, the ICP can be used to request status blocks; the SACP can also be used to request memory locations. See 80.1.6.1.3.3 of Appendix V for panel (SACP/ICP) protocol.

- 40.4 <u>Status data format</u>. The Status Data Word Blocks will be specified in Table IV-I. The format of the status data words shall be as specified in 40.5.1 through 40.5.30. The format for data specified as "REAL" shall be as specified in Table IV-II. The format for data specified as "BAM" shall be as specified in Table IV-III. The definition of NAV/SYNC filter qualities is given in Table IV-IV and NAV/SYNC transmit qualities in Table IV-V.
- 40.5 <u>Status Data</u>. The following Status data will be stored in SICP local memory.

TABLE IV-I STATUS DATA WORD BLOCKS

	TABLE IV-1 STATUS DATA WORD	рпоско
BLOCK NUMBERS	DESCRIPTION	PARAGRAPHS
1	ONGOING STATUS	40.5.1
2	NICP STATUS REPORT NUMBER 1	40.5.2
3	SICP STATUS REPORT	40.5.3
4	D/R NAVIGATION DATA	40.5.4
5	D/R NAVIGATION DATA	40.5.5
6	JTIDS NAVIGATION DATA	40.5.6
7	JTIDS NAVIGATION DATA	40.5.7
8	BIT STATUS REPORT (SEE NOTE 1)	40.5.8
9	GREENWICH MEAN TIME	40.5.9
10-11	NPG MAPPING STATUS	40.5.10
12-13	NOT USED	40.5.11, 40.5.12
14	TACAN STATUS - F-15, NAVY AIR ONLY	40.5.13
15	SACP FILTER REQUEST	40.5.14
16	NICP STATUS REPORT NUMBER 2	40.5.15
17	IJMS 12-SECOND MESSAGE STATUS WORDS AND IJMS PROCESSING STATUS COUNTERS	40.5.16
18-19	SPARE	40.5.17, 40.5.18
20	VMF ROUTE DATA - ARMY ONLY	40.5.19
21-23	CONNECTIVITY DATA - ARMY ONLY	40.5.20
24	POSITION STATUS REQUEST/RESPONSE - ARMY ONLY	40.5.21
25-27	NEEDLINE STATUS - ARMY ONLY	40.5.22
28	COMMUNICANT STATUS - ARMY ONLY	40.5.23
29	NAVY STATUS - NAVY ONLY	40.5.24
30	TSR STATUS REPORT NUMBER 1 - NAVY ONLY	40.5.25
31	UTM/UPS OWN POSITION DATA - ARMY ONLY	40.5.26
32	TSR BASIC BLOCKS SELECTED NUMBER 1 (OWN TERMINAL) - NAVY ONLY	40.5.27
33	TSR BASIC BLOCKS SELECTED NUMBER 2 (OWN TERMINAL) - NAVY ONLY	40.5.28
34	TSR BASIC BLOCKS SELECTED NUMBER 1 (OTHER TERMINALS) - NAVY ONLY	40.5.29
35	TSR BASIC BLOCKS SELECTED NUMBER 2 (OTHER TERMINALS) - NAVY ONLY	40.5.30

NOTES:

¹⁾ STATUS BLOCK 8 INDICATIONS ARE RELEVANT ONLY WHEN ONGOING STATUS WORD 1 INDICATES A FAILURE OR DEGRADATION (STATUS BLOCK 1, WORD 3).
2) STATUS BLOCK 32-35 ARE RESERVED FOR SOFTWARE TESTING

TABLE IV-II REAL DATA FORMAT

A REAL (single-precision floating-point) quantity is 32 bits long and has two parts: mantissa, and exponent. The format of the REAL data quantity is shown below.

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	M S B					1	MAN	TIS	SA							
wd 2			L MANTISSA S EXE B							EXPO	NEN	IT				

The bit designation shall be as follows:

WORD 1

8-15

	BIT	<u>DESIGNATION</u>
	0-15	16 MSBs OF 24-BIT MANTISSA.
WORD	2	RANGE = -1 TO 1
	BIT	DESIGNATION
	0-7	EXPONENT. RANGE = -128 TO 127

8 LSBs OF 24-BIT MANTISSA.

NOTE: THE EXPONENT IS A TWO'S COMPLEMENT REPRESENTATION. THE MANTISSA IS A TWO'S COMPLEMENT QUANTITY AND NORMALIZED SO THAT BIT 14 IS ALWAYS DIFFERENT FROM BIT 15. THE REPRESENTATION OF THE FLOATING POINT ZERO IS THE SINGLE EXCEPTION; IT IS REPRESENTED AS 00000080.

USING THIS NOTATION, NUMBERS AS LARGE AS 2^{127} (OR APPROXIMATELY 1.7014 x 10^{38}) AND NUMBERS AS SMALL AS 2^{-129} (OR APPROXIMATELY 1.4694 x 10^{-39} MAY BE REPRESENTED).

TABLE IV-III BAM DATA FORMAT

Binary Angular Measure (BAM) is a means for representing angles as fixed-point binary numbers in two's complement notation so that the MSB has the value of -180 degrees, or, alternatively, - π radians.

The BAM number generally is 16 (single-precision) or 32 (double-precision) bits long. The formats are shown below.

16-BIT BAM:

 MSB															LSB
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

NOTE: If LSB is specified in bit position b, i.e., (16-b)-BIT BAM, then

32-BIT BAM:

	MSI	3													Ι	LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	MSB	}														
wd 2															L	SB

The bit designations shall be as follows:

WORD 1

<u>BIT</u> <u>DESIGNATION</u>

0-15 16 MSBs OF 32-BIT BAM NUMBER; REMAINING 16 BITS ARE IN WORD 2.

WORD 2

BIT DESIGNATION

0-15 16 LSBs OF 32-BIT BAM NUMBER; 16 MSBs ARE IN WORD 1.

NOTE: If LSB is specified in bit position b of Word 2, i.e., (32-b)-BIT BAM, then

TABLE IV-IV NAV/SYNC FILTER QUALITIES

THE TERMINAL DETERMINES GEODETIC POSITION, RELATIVE POSITION, ALTITUDE,
TIME AND RELATIVE AZIMUTH QUALITIES AS GIVEN BELOW.

	VALUES FOR $\sigma_{_{\mathrm{PG}}}$, $\sigma_{_{\mathrm{PR}}}$, $\sigma_{_{\mathrm{H}}}$, $\sigma_{_{\mathrm{T}}}$ ARE	APPROXIMATE.	
QUALITY LEVEL Q	GEODETIC POS. $(\sigma_{_{PG}})$ (NOTE 1) RELATIVE POS. $(\sigma_{_{PR}})$ (NOTE 2) ALTITUDE $(\sigma_{_{H}})$ (NOTE 3) (FEET)	TIME $(\sigma_{_{\mathrm{T}}})$ (NSEC) (NOTE 4)	RELATIVE AZIMUTH (σ_{AR}) (MILLIRADIANS) (NOTE 5)
15	#50	#50	
14	#71	#71	
13	#100	#100	
12	#141	#141	
11	#200	#200	
10	#282	#282	
9	#400	#400	
8	#565	#565	
7	#800	#800	#1
6	#1130	#1130	#2
5	#1600	#1600	#4
4	#2260	#2260	#8
3	#4520	#4520	#16
2	#9040	#9040	#32
1	#18080	#18080	#64
0	>18080	>18080	>64

- NOTE 1: Q_{pg} CORRESPONDS TO THE SEMI-MAJOR AXIS OF THE GEODETIC POSITION ERROR ELLIPSE COMPUTED FROM THE COVARIANCE MATRIX.
- NOTE 2: Q_{pr} IS 15 FOR THE PRIMARY NAV CONTROLLER; OTHERWISE, IT CORRESPONDS TO THE SEMI-MAJOR AXIS OF THE RELATIVE POSITION ERROR ELLIPSE COMPUTED FROM THE COVARIANCE MATRIX.
- NOTE 3: $Q_{_{\rm H}}$ CORRESPONDS TO THE ALTITUDE ERROR, COMPUTED FROM THE COVARIANCE MATRIX.
- NOTE 4: $Q_{_{\rm T}}$ IS 15 FOR THE NET TIME REFERENCE NOT USING AN EXTERNAL TIME REFERENCE; OTHERWISE, IT CORRESPONDS TO THE CLOCK BIAS ERROR COMPUTED FROM THE COVARIANCE MATRIX.
- NOTE 5: Q_{AR} IS 7 FOR THE PRIMARY NAV CONTROLLER; OTHERWISE, IT CORRESPONDS TO THE GRID DRIFT AZIMUTH ERROR COMPUTED FROM THE COVARIANCE MATRIX.

TABLE IV-V NAV/SYNC TRANSMIT QUALITIES

THESE ARE THE VALUES THE TERMINAL USES WHEN REPORTING ITS GEODETIC POSITION, RELATIVE POSITION, ALTITUDE, TIME AND RELATIVE AZIMUTH QUALITIES TO THE NETWORK. THESE ARE PARTIALLY BASED ON THE FILTER QUALITIES AS FOUND IN TABLE IV-IV.

VALUES FOR σ_{pg} , σ_{pp} , σ_{u} , σ_{τ} ARE APPROXIMATE. OUALITY RELATIVE GEODETIC POS. (σ_{pg}) (NOTE 1) TIME (σ_{T}) LEVEL O (NSEC) AZIMUTH (σ_{n}) RELATIVE POS. (σ_{pp}) (NOTE 2) (NOTE 4) (MILLIRADIANS) ALTITUDE (σ_{H}) (NOTE 3) (NOTE 5) (FEET) 15 #50 #50 14 #71 #71 13 #100 #100 12 #141 #141 11 #200 #200 10 #282 #282 9 #400 #400 8 #565 #565 7 #800 #800 #1 6 #2 #1130 #1130 5 #1600 #1600 #4 4 #2260 #8 #2260 3 #4520 #4520 #16 2 #9040 #9040 #32 1 #18080 #18080 #64 0 >18080 >18080 >64

NOTE 1: Q_{pq} IS THE FILTER QUALITY FOR A POSITION REFERENCE; OTHERWISE, IT IS MAX (0, FILTER QUALITY-1).

NOTE 2: Q_{pr} IS 15 FOR THE PRIMARY NAV CONTROLLER; THE VALUE, NOT GREATER THAN 14, CORRESPONDING TO THE SEMI-MINOR AXIS OF THE RELATIVE POSITION ERROR ELLIPSE COMPUTED FROM THE COVARIANCE MATRIX FOR THE SECONDARY NAV CONTROLLER; MAX (0, FILTER QUALITY -1) FOR A PRIMARY USER; AND MAX (0, FILTER QUALITY-1), BUT NO GREATER THAN 13, FOR A SECONDARY USER.

NOTE 3: Q_H IS THE FILTER QUALITY.

NOTE 4: FOR AN NTR WITHOUT EXTERNAL TIME REFERENCE (ETR), Q_T IS 15; FOR ANY TERMINAL WITH ETR, Q_T IS THE FILTER QUALITY; FOR ALL OTHERS, IT IS MIN (14, FILTER OUALITY).

NOTE 5: Q_{AR} IS 7 FOR THE PRIMARY OR SECONDARY NAV CONTROLLER; OTHERWISE, IT IS MIN (6, FILTER QUALITY).

TABLE IV-VI Status Data Block Summary

Block No.		Para.	F-15	Army	Navy Ship	Navy Air	E-3	MCE
			App. VI	App. VII	App. VIII	App. IX	App. X	App. XI
1	Ongoing Status	40.5.1	Х	Х	X+	X+	X+	X+
2	NICP Status Report No. 1	40.5.2	Х	Х	X+	X+	X+	X+
3	SICP Status Report	40.5.3	Х	Х	X+	X+	Х	Х
4	D/R Navigation Data	40.5.4	Х	Х	X+	X+	Х	
5	D/R Navigation Data	40.5.5	Х	Х	Х	Х	Х	
6	JTIDS Navigation Data	40.5.6	Х	Х	Х	Х	Х	Х
7	JTIDS Navigation Data	40.5.7	Х	Х	X+	X+	Х	Х
8	BIT Status Report (see Note 1)	40.5.8	Х	X	X+	X+	X+	X+
9	Greenwich Mean Time	40.5.9	Х	Х	X	X	Х	Х
10-11	NPG Mapping Status	40.5.10	Х	Х	X	Х	Х	Х
12-13	Not Used	40.5.11, 40.5.12						
14	TACAN Status	40.5.13	Х			Х		
15	SACP Filter Request	40.5.14	X	X	X+	X+	X+	Х
16	NICP Status Report No. 2	40.5.15	X	X	X+	X+	X	Х
17	IJMS 12-Second Message Status Words and IJMS Processing Status Counters	40.5.16	Х				Х	х
18-19	E-3 Status	40.5.17, 40.5.18					+	
20	VMF Route Data	40.5.19		Х				
21-23	Connectivity Data	40.5.20		Х				
24	Position Status Request/Response	40.5.21		Х				
25-27	Needline Status	40.5.22		Х				
28	Communicant Status	40.5.23		Х				
29	Navy Status	40.5.24			X	X		+
30	TSR Status Report No. 1	40.5.25			Х	X		
31	UTM/UPS Own Position Data	40.5.26		Х	+	+		
32	TSR Basic Blocks Selected No. 1 (Own Terminal)	40.5.27			Х	Х		
33	TSR Basic Blocks Selected No. 2 (Own Terminal)	40.5.28						
34	TSR Basic Blocks Selected No. 1 (Other Terminals)	40.5.29						
35	TSR Basic Blocks Selected No. 2 (Other Terminals)	40.5.30						

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KEY:

Information in Appendix III applies
Information in Appendix III applies and additional information is provided in the applicable unique IU interface appendix.
Information is provided in the applicable unique IU interface appendix. X+

40.5.1 <u>Onc</u>	going Status (Block 1).
	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
wd 1	CONTROL WORD
wd 2	ADDRESS WORD
wd 3	ONGOING STATUS WORD 1
wd 4	ONGOING STATUS WORD 2
wd 5	NET SELECTION STATUS WORD 1 (NAVY AIR ONLY)
wd 6	NET SELECTION STATUS WORD 2 (NAVY AIR ONLY)
wd 7	NOT USED
wd 8	NOT USED
wd 9	NOT USED
wd 10	NOT USED
wd 11	NOT USED
wd 12	NOT USED
wd 13	NOT USED
wd 14	NOT USED
wd 15	NOT USED
wd 16	NOT USED
wd 17	NOT USED
wd 18	NOT USED
wd 19	NOT USED
wd 20	NOT USED
wd 21	NOT USED
wd 22	NOT USED
wd 23	NOT USED
wd 24	NOT USED
wd 25	NOT USED
wd 26	NOT USED
wd 27	NOT USED
wd 28	NOT USED
wd 29	NOT USED
wd 30	NOT USED
wd 31	NOT USED
wd 32	NOT USED

40.5.1.1 <u>Control Word</u>. (For all blocks)

	MSB															LSB
	15	14	12	10	11	10	a	Ω	7	6	5	4	2	2	1	0
	13	T.4	13	12	11	10	9	0	/	6	5	7	3	۷.	Т.	U
wd 1			Αſ	ГS		A.	E			R	Т			WC		

The fields in this word are described in 80.1.4.8.1.6.2.1 (Terminal Input Message 16, Word 1). When the IU sends to the Host, in Terminal Output Message 28, a Host-requested Status Block, this control word will be set identically to the Terminal Input Message 16, Word 1, containing the request.

40.5.1.2 Address Word. (For all blocks)

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 2	BI								SDW					DWC		

The fields in this word are defined in 80.1.4.8.1.6.2.2 (Terminal Input Message 16, Word 2). When the IU sends to the Host, in Terminal Output Message 28, a Host-requested Status Block, this Address Word will be set identically to the Terminal Input Message 16, Word 2 (for the Data Word Code method), containing the request.

40.5.1.3 Ongoing Status Word 1 (Block 1, Word 3)

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 3	T S T F	T G	T E R M F	S A	I P F F	D E G P R		M F	P F	H F	T O R D E	T O L D	B A T F	N I C P	S I C P	

FOR NAVY SHIPBOARD:

For the Navy Shipboard unique Ongoing Status Word 1, see Appendix VIII.

FOR NAVY AIRBORNE:

For the Navy Airborne unique Ongoing Status Word 1, see Appendix VIII.

FOR E-3:

For the E-3 unique Ongoing Status Word 1, see Appendix X.

The bit designation shall be as follows:

<u>BIT</u>	DESIGNATION
0	NOT USED
1	SICP DEGRADED PERFORMANCE INDICATOR (SICP) LOGIC 1 = TIME OVERLOAD, NO INTERNAL BUFFERS, FLOATING POINT OVERFLOW, DIVIDE BY ZERO, OR NEGATIVE SQUARE ROOT HAS BEEN DETECTED IN THE SICP.
2	NICP DEGRADED PERFORMANCE INDICATOR (NICP) LOGIC 1 = TIME OVERLOAD, NO INTERNAL BUFFERS, FLOATING POINT OVERFLOW, DIVIDE BY ZERO, OR NEGATIVE SQUARE ROOT HAS BEEN DETECTED IN THE NICP.
3	BATTERY FAIL (BATF) LOGIC 1 = BATTERY UNIT HAS FAILED.
4	THERMAL OVERLOAD (TOLD) LOGIC 1 = THERMAL OVERLOAD CONDITION EXISTS IN THE TERMINAL.
5	THERMAL OVERRIDE (TORDE) LOGIC 1 = TERMINAL IS OPERATING IN THE THERMAL OVERRIDE CONDITION.
6	HOST FAIL (HF) LOGIC 1 = INDICATES FAILURE OF HOST INTERFACE IN EITHER DIRECTION. NO COMMUNICATION WITH HOST IN LAST 12 SECONDS. STATUS BLOCK 1

BIT	DESIGNATION
7	PATH FAIL (PF) LOGIC 1 = INDICATES MESSAGE PATH FAILURE OR EXCESSIVE TIME DETECTED FOR SOME NEEDLINE NPG. (ARMY ONLY)
8	MESSAGE FAIL (MF) LOGIC 1 = ONE OF THE FOLLOWING HAS OCCURRED IN THE LAST TWELVE SECONDS: NO MESSAGES RECEIVED; MOST MESSAGES RECEIVED IN ERROR, DEGRADED RTT TRANSMIT PERFORMANCE.
9	NOT USED
10	DEGRADED PERFORMANCE (DEGPR) LOGIC 1 = ONE OF THE FOLLOWING HAS OCCURRED: ANTENNA REDUCED POWER OUTPUT OR VSWR FAIL, A RECEIVER FAIL OR SYNTHESIZER FAIL.
11	<pre>IPF FAIL (IPFF) LOGIC 1 = AN INTERFERENCE PROTECTION FEATURE FAILURE HAS</pre>
12	SDU ALERT (SA) LOGIC 1 = AN SDU ALARM OR BAD VARIABLE HAS BEEN DETECTED.
13	TERMINAL FAIL (TERMF) LOGIC 1 = A DDP, R/T, IU, BATTERY, LOOPBACK OR IPF FAIL HAS BEEN DETECTED. (SEE APPENDIX X FOR E-3 AND XI FOR MCE)
14	TEST GO (TG) LOGIC 1 = MANUAL BIT IS COMPLETE AND ALL TESTS HAVE PASSED.
15	TEST FAIL (TSTF) LOGIC 1 = AN LRU FAILURE, TERMINAL FAIL, SDU ALERT, IPF FAIL, OR DEGRADED PERFORMANCE HAS BEEN DETECTED.APPLIES ONLY TO MANUAL BIT AND COMES AT

STATUS BLOCK 1

THE END OF LRU BIT.

40.5.1.4 Ongoing Status Word 2 (Block 1, Word 4)

_		MSB															LSB
		15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
	wd 4	B I P	B L	υс	I D R	ОН	N P	N C S	N F S	N S	B F						

FOR NAVY SHIPBOARD:

For the Navy Shipboard unique Ongoing Status Word 2, see Appendix VIII.

FOR NAVY AIRBORNE:

For the Navy Airborne unique Ongoing Status Word 2, see Appendix VIII.

FOR E-3:

For the E-3 unique Ongoing Status Word 1, see Appendix X.

BIT	DESIGNATION
0-5	NOT USED
6	BUFFERS FULL (BF) LOGIC 1 = TRANSMIT OR RECEIVE BUFFER HAS OVERFLOWED CAUSING AT LEAST ONE MESSAGE TO BE DROPPED.
7	NO COARSE SYNC (NS) LOGIC 1 = INITIALIZATION IS COMPLETE AND NET ENTRY HAS BEEN INITIATED, BUT COARSE SYNC HAS NOT BEEN ACHIEVED, I.E., THE FIRST NET ENTRY MESSAGE HAS NOT YET BEEN RECEIVED.
8	NO FINE SYNC (NFS) LOGIC 1 = COARSE SYNC HAS BEEN ACHIEVED, BUT FINE SYNC HAS NOT BEEN ACHIEVED. TERMINAL MAY TRANSMIT ONLY RTT MESSAGES.
9	NO NET CONTROL STATION (NCS) LOGIC 1 = TERMINAL IS IN FINE SYNC BUT IT IS NOT IN CONTROL OF A NON-FAILED NET CONTROL STATION (ARMY ONLY).
10	NO PATH (NP) LOGIC 1 = TERMINAL IS IN FINE SYNC BUT DOES NOT HAVE PATH (NPG AND TIME SLOT BLOCK) TO AT LEAST ONE DESTINATION (ARMY ONLY).

BIT	DESIGNATION
11	<pre>INITIALIZATION COMPLETE (IC) LOGIC 1 = INITIALIZATION COMPLETE. THIS IS INDICATED AFTER THE LOAD COMPLETE COMMAND INITIALIZATION DATA BLOCK 0, WORD 3 IS RECEIVED, AND THE INITIALIZATION DATA HAS BEEN LOADED AND ACCEPTED.</pre>
12	<pre>INITIALIZATION DATA REQUIRED (IDR) LOGIC 1 = INITIALIZATION DATA REQUIRED</pre>
13	DATA CONFLICT (DC) LOGIC 1 = INITIALIZATION DATA IS IN CONFLICT WITH DATA PREVIOUSLY RECEIVED, OR A VALIDITY ERROR IN THE INITIALIZATION LOAD HAS BEEN FOUND.
14	BAD LOAD (BL) LOGIC 1 = INITIALIZATION DATA LOAD RECEIVED IN ERROR.
15	BIT IN PROCESS (BIP) LOGIC 1 = MANUAL BIT IN PROGRESS

40.5.1.5 Net Selection Status Word 1. (Block 1, Word 5).

NAVY AIR ONLY

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 5					I	RNPG						NS	SC		NS	SS

The bit designation shall be as follows:

<u>BIT</u> <u>DESIGNATION</u>

0-1 NET SELECTION STATUS (NSS) - NAVY AIR ONLY

BIT 1 • 0

.

0 • 0 NO STATEMENT

0 • 1 REQUEST IN PROGRESS

1 • 0 REQUEST EXECUTED

1 • 1 REQUEST REJECTED

2-5 NET SELECTION COUNTER (NSC) - NAVY AIR ONLY

THE COUNTER (INCREMENTED BY 1 EACH TIME A NEW NET SELECTION REQUEST IS RECEIVED) USED TO IDENTIFY THE NET SELECTION REQUEST THAT IS DESCRIBED IN THIS WORD

AND THE NEXT WORD.

RANGE: 0 - 15

6-14 NPG FOR WHICH THE NET CHANGE WAS REQUESTED (RNPG) -

NAVY AIR ONLY

RANGE: 0 - 511

IF RNPG = 0, A CHANGE OF THE DEFAULT NET WAS

REQUESTED.

15 SPARE

NOTE: NET SELECTION IS REQUESTED EITHER BY INITIALIZATION BLOCK 57

(SEE 80.1.2.15) OR TIM 16, WORDS 16 AND 17 (SEE

80.1.4.8.1.6.2.11).

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NAVY ONLY - STATUS BLOCK 1

40.5.1.6 Net Selection Status Word 2. (Block 1, Word 6).

NAVY AIR ONLY

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 6]	RNET			

The bit designation shall be as follows:

BIT	DESIGNATION
0-6	REQUESTED NET NUMBER (RNET) - NAVY AIR ONLY RANGE: 0 - 127
7-15	SPARE

40.5.1.7 Checksum Error Words 1-4 (Block 1, Words 7-10).

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 7	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 8	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16
wd 9	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32
wd 10	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48

LOGIC 1 = A CHECKSUM ERROR WAS FOUND IN THE CORRESPONDING INITIALIZATION BLOCK.

LOGIC 0 = A CHECKSUM ERROR WAS NOT FOUND IN THE CORRESPONDING INITIALIZATION BLOCK.

NOTE: THESE WORDS ARE VALID WHEN INITIALIZATION STATUS (IN TERMINAL OUTPUT MESSAGE 1, WORD 4; SEE 80.1.4.8.2.1.2.4) IS SET TO "LOAD COMPLETE - LOAD ERROR DETECTED", OR, EQUIVALENTLY, BIT 14 OF ONGOING STATUS WORD 2 (SEE 80.1.3.1.2) IS SET TO LOGIC 1.

FOR E-3:

For the E-3 unique Ongoing Status Word 1, see Appendix X.

40.5.1.8 <u>Validity Error Words 1-4 (Block 1, Words 11-14)</u>. These words have the same format and are valid at the same time as words 7-10.

LOGIC 1 = A VALIDITY ERROR WAS FOUND IN THE CORRESPONDING INITIALIZATION BLOCK.

LOGIC 0 = A VALIDITY ERROR WAS NOT FOUND IN THE CORRESPONDING INITIALIZATION BLOCK.

NOTE: INITIALIZATION BLOCKS 16-19, 21-22, 56 AND 59 HAVE NO VALIDITY CHECKS AND SO WILL NEVER GENERATE A VALIDITY ERROR.

FOR E-3:

For the E-3 unique Ongoing Status Word 1, see Appendix X.

40.5.1.9 Block Count Error and TSR POOL VALIDITY Word (Block 1, Word 15).

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 15		ВСЕ							V_7	V ₆	V ₅	V_4	V_3	V_2	V ₁	V _o

LOGIC 0 = A BLOCK COUNT ERROR WAS NOT FOUND IN THE INITIALIZATION LOAD.

NOTE: THIS BIT IS VALID AT THE SAME TIME AS WORDS 7-14.

15 SPARE

40.5.2 NICP Status Report Number 1 (Block 2)

	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0														
wd 1	CONTROL WORD (SEE 40.5.1.1)														
wd 2	ADDRESS WORD (SEE 40.5.1.2)														
wd 3	12 SECOND MESSAGE STATUS WORD 1														
wd 4	12 SECOND MESSAGE STATUS WORD 2														
wd 5	12 SECOND MESSAGE STATUS WORD 3														
wd 6	12 SECOND MESSAGE STATUS WORD 4														
wd 7	12 SECOND MESSAGE STATUS WORD 5														
wd 8	12 SECOND MESSAGE STATUS WORD 6														
wd 9	12 SECOND MESSAGE STATUS WORD 7														
wd 10	12 SECOND MESSAGE STATUS WORD 8														
wd 11	12 SECOND MESSAGE STATUS WORD 9														
wd 12	12 SECOND MESSAGE STATUS WORD 10														
wd 13	12 SECOND MESSAGE STATUS WORD 11														
wd 14	12 SECOND MESSAGE STATUS WORD 11 MODE WORD														
wd 15	MODE WORD BIT WORD 1														
wd 16	BIT WORD 2														
wd 17	CRYPTO AND RELAY STATUS														
wd 18	TRANSMITTED QUALITY AND OTAR STATUS														
wd 19	SYNC STATUS														
wd 20	SUMMED CLOCK BIAS WORD 1														
wd 21	SUMMED CLOCK BIAS WORD 2														
wd 22	HARDWARE FREQUENCY CORRECTION														
wd 23	JTIDS TOD WORD 1/TRANSMISSION SHUTDOWN INDICATOR WORD														
wd 24	JTIDS TIME OF DAY WORD 2														
wd 25	JTIDS TIME OF DAY WORD 3														
wd 26	NO. OF ILLEGAL INSTRUCTION INTERRUPTS														
wd 27	NO. OF ILLEGAL CPU CLOCK STATE INTERRUPTS														
wd 28	LOOPBACK MESSAGE TYPE FAILURES														
wd 29	OTF CONSTANT FREQ. OFFSET STATE WORD 1														
wd 30	OTF CONSTANT FREQ. OFFSET STATE WORD 2														
wd 31	REL NAV KALMAN FILTER STATUS 1														
wd 32	KALMAN FILTER QUALITIES														

40.5.2.1 <u>12 Second Message Status Words</u>. (Block 2, Words 3 through 13) 14 15 13 12 11 10 9 6 4 1 0 wd 3 NO. OF SUCCESSFUL TRANSMISSIONS RECEIVED DURING LAST REPORTING INTERVAL (DOES NOT INCLUDE RTT'S) NO. OF RTT INTERROGATIONS TRANSMITTED wd 4 wd 5 NO. OF RTT REPLIES RECEIVED wd 6 NO. OF TRANSMISSIONS RECEIVED IN ERROR wd 7 NO. OF MESSAGES NOT ACKNOWLEDGED wd 8 NO. OF LOOPBACK DECODE FAILS wd 9 NO. OF LOOPBACK TOA FAILS wd 10 NO. OF LOOPBACK FAILS (NO LOOPBACK) wd 11 NO. OF SUCCESSFUL LOOPBACKS wd 12 NO. OF TEST MESSAGE BIT-BY-BIT COMPARE FAILS wd 13 NO. OF SUCCESSFULLY RECEIVED TEST MESSAGES

40.5.2.2 <u>Mode Word</u>. (Block 2, Word 14)

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 14			IPF	FAI	LURE		II			A/J			ST		XMIT	
		U	R	P	F	P	OV	ER		MODE		MO	DE]	MODE	
		T F	E F	W F	S F	L F										

FOR NAVY SHIPBOARD:

For the Navy Shipboard unique values of this word, see Appendix VIII.

FOR NAVY AIRBORNE:

For the Navy Airborne unique values of this word, see Appendix VIII.

The bit designation shall be as follows:

BIT DESIGNATION

0-2 TRANSMISSION MODE (XMIT MODE)

BIT 2 • 1 • 0

• • • • • • • • • •

0 • 0 • 0 TDMA OFF

0 • 0 • 1 NORMAL

0 • 1 • 0 POLLING

0 • 1 • 1 NOT USED

1 • 0 • 0 RADIO SILENT

1 • 0 • 1 NOT USED

1 • 1 • 0 NOT USED

1 • 1 • 1 LONG TERM TRANSMIT INHIBIT

FOR MCE:

For the MCE unique value of this field, see Appendix XI.

```
BIT
          DESIGNATION
3 - 4
          TEST MODE
           BIT 4 • 3
               • • • • • •
                       TEST MODE OFF
TEST MODE 1
                0 • 0
                0 • 1
                         TEST MODE 2
                1 • 0
                1 • 1
                         NOT USED
5-7
          A/J MODE (A/J MODE)
           BIT 7 • 6 • 5
                • • • • • • • • •
                            NOT USED
A/J MODE 1
                0 • 0 • 0
                0 • 0 • 1
                0 • 1 • 0
                             A/J MODE 2
                0 • 1 • 1 NOT USED
1 • 0 • 0 A/J MODE 4
1 • 0 • 1 NOT USED
1 • 1 • 0 NOT USED
                1 • 1 • 1 NOT USED
8-9
          IPF OVERRIDE (IPF OVER)
           BIT 9 • 8
                0 • 0 OFF, 100/20
0 • 1 EXERCISE
                1 • 0
                         COMBAT
                1 • 1
                         OFF, 100/50
10-14
          IPF FAILURES (5 BITS)
           BIT 10=1 POWER LIMIT FAILURE (PLF)
           BIT 11=1 FREQUENCY SPECTRUM FAILURE (FSF)
           BIT 12=1 PULSE WIDTH FAILURE (PWF)
           BIT 13=1 RADIATED ENERGY FAILURE (REF)
           BIT 14=1 UTILIZATION FAILURE (UTF)
15
      Not Used
```

40.5.2.3 <u>BIT Word 1</u> (Block 2, Word 15)

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 15		R T C	T F C	G M A F	G M F	P I R		C H F	S Q N	D V Z	0 7 2	N O B	ТО	R O M	R A M	C P U

The bit designation shall be as follows:

BIT	DESIGNATION
0	LOGIC 1 = CPU FAILURE (CPUF)
1	LOGIC 1 = RAM FAILURE (RAMF)
2	LOGIC 1 = ROM FAILURE (ROMF)
3	LOGIC 1 = TIME OVERLOAD (TO)
4	LOGIC 1 = NO BUFFERS AVAILABLE (NOB)
5	LOGIC 1 = FLOATING POINT OVERFLOW (OV)
6	LOGIC 1 = FLOATING POINT DIVIDE BY ZERO (DVZ)
7	LOGIC 1 = SQUARE ROOT NEGATIVE ARGUMENT (SQN)
8	LOGIC 1 = CHRONOMETER FAIL (CHF)
9	NOT USED
10	LOGIC 1 = POSITION INITIALIZATION REQUIRED (PIR)
11	LOGIC 1 = GLOBAL MEMORY FAILURE (GMF)
12	LOGIC 1 = GLOBAL MEMORY ADDRESS FAILURE (GMAF)
13	LOGIC 1 = ASSIGNMENT PENDING TABLE FULL (TFC)
14	LOGIC 1 = R/T RCVR CIRCUMVENTION IN PROCESS (RTC)
15	NOT USED

FOR NAVY SHIPBOARD:

For the Navy Shipboard unique values of this word, see Appendix VIII.

FOR NAVY AIRBORNE:

For the Navy Airborne unique values of this word, see Appendix VIII.

40.5.2.4 <u>BIT Word 2</u> (Block 2, Word 16)

	MSE	3														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 16						СТРБ	I D S W	T S F	D T B F	D T B N A	U D T B	SHCPF	R T F	T M W F	F R T	P T P F

The bit designation shall be as follows:

BIT	DESIGNATION
0	LOGIC 1 = PLAIN TEXT PROCESSOR FAIL (PTPF)
1	LOGIC 1 = FREEZE TIME (FRT)
2	LOGIC 1 = TUNE MODE WRAPAROUND FAIL (TMWF)
3	LOGIC 1 = R/T FAIL (RTF)
4	LOGIC 1 = SICP FAIL (SICPF)
5	LOGIC 1 = UNIDENTIFIABLE DTB (UDTB)
6	LOGIC 1 = DTB NOT ACKNOWLEDGED (DTBNA)
7	LOGIC 1 = DTB FULL (DTBF)
8	LOGIC 1 = TASK SCHEDULE FAIL (TSF)
9	LOGIC 1 = INVALID DTB START WORD (IDSW)
10	LOGIC 1 = CYPHER TEXT PROCESSOR FULL (CTPF)
11-15	NOT USED

FOR NAVY SHIPBOARD:

For the Navy Shipboard unique values of this word, see Appendix VIII.

FOR NAVY AIRBORNE:

For the Navy Airborne unique values of this word, see Appendix VIII.

40.5.2.5 Crypto and Relay Status Word (Block 2, Word 17)

	MSB														I	SB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 17	R F A B	R F A A					CI	RYPT	O ST	'ATUS	3			C O N R	V N R	M N R

The bit designation shall be as follows:

BIT	DESIGNATION
0	LOGIC 1 = ACTIVE MAIN NET RELAY (MNR)
1	LOGIC 1 = ACTIVE VOICE NET RELAY (VNR)
2	LOGIC 1 = ACTIVE CONTROL NET RELAY (CONR)
3-11	CRYPTO STATUS
	BIT 3=1 SDU VARIABLE 0 BAD BIT 4=1 SDU VARIABLE 1 BAD BIT 5=1 SDU VARIABLE 2 BAD BIT 6=1 SDU VARIABLE 3 BAD BIT 7=1 SDU VARIABLE 4 BAD BIT 8=1 SDU VARIABLE 5 BAD BIT 9=1 SDU VARIABLE 6 BAD BIT 10=1 SDU VARIABLE 7 BAD BIT 11=1 SDU ALARM
NOTE:	SEE 80.1.3.6.12 FOR A DESCRIPTION OF THESE CRYPTO STATUS BITS
12-13	NOT USED
14	LOGIC 1 = FWD RFA (A) TEST FAIL
15	LOGIC 1 = AFT RFA (B) TEST FAIL

FOR NAVY SHIPBOARD:

For the Navy Shipboard unique values of this word, see Appendix VIII.

FOR NAVY AIRBORNE:

For the Navy Airborne unique values of this word, see Appendix VIII.

40.5.2.6 <u>Transmitted Quality and OTAR Status Word</u> (Block 2, Word 18)

	MSE	3														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 18	O T S		$Q_{\mathtt{AR}}$			Q_{pp}	3			Q	PG			Q	т	

The bit designation shall be as follows:

BIT	DESIGNATION
0-3	TIME QUALITY ($Q_{_{\mathrm{T}}}$) SEE TABLE IV-V
4-7	GEODETIC POSITION QUALITY (Q $_{_{\mathrm{PG}}})$ SEE TABLE IV-V
8-11	RELATIVE POSITION QUALITY (Q $_{_{\mathrm{PR}}})$ SEE TABLE IV-V
12-14	RELATIVE AZIMUTH QUALITY ($Q_{_{AR}}$) SEE TABLE IV-V
15	LOGIC 1 = OTAR SUCCESSFUL (OTS)

40.5.2.7 Sync Status Word (Block 2, Word 19)

	M	ISB														LS	В
		15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd	19	N T R	E T R		IT M- .RY	ET SU MA	M-	N S C V	5) 7	S F R		SYNC MODE			SY STA		

The bit designation shall be as follows:

BIT	<u>DESIGNATION</u>
0-3	SYNC STATUS
	BIT 3 • 2 • 1 • 0
	0 • 0 • 0 • 0 NO SYNCHRONIZATION (NS) 0 • 0 • 0 • 1 COARSE SYNC ACHIEVED (CSA) 0 • 0 • 1 • 0 COARSE SYNC CONFIRMED (CSC) 0 • 1 • 0 • 0 FINE SYNC IN PROGRESS (FSP) 1 • 0 • 0 • 0 FINE SYNC ACHIEVED (FSA)

OTHER VALUES NOT USED

4-6 SYNC MODE

BIT 6 • 5 • 4

0 • 0 • 0 NO FILTER (I.E., NTR WITHOUT ETR)

0 • 0 • 1 ACTIVE SYNC

0 • 1 • 0 SECONDARY USER

1 • 0 • 0 RADIO SILENT (PASSIVE SYNC)

OTHER VALUES NOT USED

FOR MCE:

For the MCE unique values of this field, see Appendix ${\tt XI.}$

FOR NAVY SHIPBOARD:

For the Navy Shipboard unique values of this word, see Appendix VIII.

7 LOGIC 1 = SYNC FILTER RESET (SFR)

8-9 NO. OF SYNC OBSERVATION VALIDITY FAILURES (NSOVF)

BIT DESIGNATION

10-11 ETR SUMMARY

BIT 11 • 10

.

0 • 0 NO STATEMENT
0 • 1 SUCCESSFUL ETR
1 • 0 ETR FAILURE
1 • 1 NOT USED

12-13 RTT SUMMARY

BIT 13 • 12

• • • • • • • •

0 • 0 NO STATEMENT 0 • 1 SUCCESSFUL RTT

1 • 0 RTT-A FAIL
1 • 1 RTT-B FAIL

14 EXTERNAL TIME REFERENCE (ETR) LOGIC 0 = ETR IS NOT ENABLED

LOGIC 1 = ETR IS ENABLED

15 NET TIME REFERENCE (NTR)

LOGIC 0 = TERMINAL IS NOT NTR

LOGIC 1 = TERMINAL IS NTR

40.5.2.8 <u>Summed Clock Bias Words</u> (Block 2, Word 20 and 21)

TYPE: REAL

UNITS: Nanoseconds

DEFINITION: Total amount of clock bias corrections sent to

the clock during the reporting period.

40.5.2.9 <u>Hardware Frequency Correction Word</u> (Block 2, Word 22)

<u>BIT</u> <u>DESIGNATION</u>

0-15 16-BIT TWO'S COMPLEMENT

TYPE: FIXED POINT LSB: 20 x 2⁻⁹ Hz

RANGE: APPROXIMATELY \forall 20 Hz

DEFINITION: Copy of Hardware frequency correction word

(SEE 10.1.1.4.2) sent to the Reference Time

Base (RTB) during reporting time.

40.5.2.10 JTIDS Time of Day Word 1/Transmission Shutdown Indicator Word (Block 2, Word 23)

	MSE	3														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 23	T A C	N C S	H I P F	X D F E	N F S										SI	ET

FOR NAVY SHIPBOARD:

For the Navy Shipboard unique values of this word, see Appendix VIII.

FOR NAVY AIRBORNE:

For the Navy Airborne unique values of this word, see Appendix VIII.

The bit designation shall be as follows:

BIT	DESIG	SNAT	ΓI	<u>ON</u>	
0-1	SET				
	BIT	1		0	
		0 0 1 1	•	0	SPARE A B C

2-10 NOT USED

11-15 TRANSMISSION SHUTDOWN INDICATORS

BIT 11 = 1 FINE SYNC NOT ACHIEVED (NFS)
BIT 12 = 1 TRANSMIT DUTY FACTOR EXCEEDED (XDFE)
BIT 13 = 1 HARDWARE IPF FAILURE (HIPFF)
BIT 14 = 1 COARSE SYNC NOT ACHIEVED (NCS)
BIT 15 = 1 TACAN ONLY (TAC)

40.5.2.11 JTIDS Time of Day Word 2 (Block 2, Word 24)

	MSB														L	SB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 24			SLOT													

The bit designation shall be as follows:

BIT	<u>DESIGNATION</u>
0-14	SLOT RANGE = 0 - 32767

15 NOT USED

40.5.2.12 JTIDS Time of Day Word 3 (Block 2, Word 25)

	M	MSB														LS	В
		15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 2	25								SEQ				E	POCE	I		

The bit designation shall be as follows:

BIT DESIGNATION

0-6 EPOCH

RANGE = 0 - 112

7-9 SEQUENCE (SEQ)

RANGE = 0 - 7

10-15 NOT USED

40.5.2.13 Number of Illegal Instruction Interrupts. (Block 2, Word 26)

	MSB														I	SB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 26			1	NUMBI	ER OF	ILL	EGAL	INS	TRUC	TION	I INT	rerri	UPTS			

<u>BIT</u> <u>DESIGNATION</u>

0-15 NUMBER OF ILLEGAL INSTRUCTION INTERRUPTS LSB (BIT 0) = 1

40.5.2.14 Number of Illegal CPU Clock State Interrupts. (Block 2, Word 27)

		MSE	3														LSB
		15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd	27			NUI	MBER	OF I	LLEG	AL C	PU (CLOCK	STA	ATE	INTE	RRUP	TS		

BIT DESIGNATION

0-15 NUMBER OF ILLEGAL CPU CLOCK STATE INTERRUPTS LSB (BIT 0) = 1

40.5.2.15 <u>Loopback Message Type Failure Word</u> (Block 2, Word 28)

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 28			L B E	L B D	L B C	L B B	L B A	L B 9	L B 8	L B 7	L B 6	L B 5	L B 4	L B 3	L B 2	L B 1

The bit designation shall be as follows:

BIT	<u>DESIGNATION</u>
0	LOGIC 1 = STANDARD FT UNCODED MESSAGE TYPE FAILURE (LB1)
1	LOGIC 1 = PACKED 2 DP-FT UNCODED MESSAGE TYPE FAILURE (LB2)
2	LOGIC 1 = PACK 2 DP-FT CODED MESSAGE TYPE FAILURE (LB3)
3	LOGIC 1 = PACKED 2 SP-FF CODED MESSAGE TYPE FAILURE (LB4)
4	LOGIC 1 = STANDARD FF CODED MESSAGE TYPE FAILURE (LB5)
5	LOGIC 1 = PACKED 2 DP-FF CODED MESSAGE TYPE FAILURE (LB6)

BIT	DESIGNATION
6	LOGIC 1 = STANDARD FT CODED MESSAGE TYPE FAILURE (LB7)
7	LOGIC 1 = PACKED 4 SP-FF CODED MESSAGE TYPE FAILURE (LB8)
8	LOGIC 1 = PACKED 2 SP-FT UNCODED MESSAGE TYPE FAILURE (LB9)
9	LOGIC 1 = PACKED 4 SP-FT UNCODED MESSAGE TYPE FAILURE (LBA)
10	LOGIC 1 = PACKED 4 SP-FT CODED MESSAGE TYPE FAILURE (LBB)
11	LOGIC 1 = PACKED 2 SP-FT CODED MESSAGE TYPE FAILURE (LBC)
12	LOGIC 1 = TEST RTT LOOPBACK FAILURE (LBD)
13	LOGIC 1 = RTT INT 2A MESSAGE TYPE FAILURE (LBE)
14-15	NOT USED

40.5.2.16 OTF Constant Frequency Offset State Words (Block 2, Word 29 and 30)

TYPE: REAL

UNITS: Nanoseconds per second

DEFINITION: Kalman Filter constant frequency offset state.

40.5.2.17 REL NAV Kalman Filter Status Word 1 (Block 2, Word 31)

	MSB														I	SB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 31	P O S	F O S	а o а		C N C		P D	7.	STYPI	Ξ	K F R	K F A		RNK	IFS	

The bit designation shall be as follows:

Dit design	action shall be as follows.
BIT	DESIGNATION
0-3	REL NAV KALMAN FILTER STATUS (RNKFS)
	BIT 3 • 2 • 1 • 0
	0 • 0 • 0 • 0 INITIALIZATION/NO FILTER • • • OPERATION
	0 • 0 • 1 NAVIGATION RESET
	0 • 0 • 1 • 0 CLOCK BIAS INITIALIZATION
	0 • 0 • 1 • 1 GRID ACQUISITION
	0 • 1 • 0 • 0 SPARE
	0 • 1 • 0 • 1 GEODETIC OBSERVATION
	• • • PROCESSING
	0 • 1 • 1 • 0 GEODETIC AND GRID
	OBSERVATION PROCESSING
	0 • 1 • 1 • 1 NOT USED
	. • . • . • .
	. • . • . • . 1
	1 • 1 • 1 • 1 NOT USED
4	LOGIC 1 = KALMAN FILTER ALTERATION (KFA)
5	LOGIC 1 = KALMAN FILTER RESET (KFR)
6-8	SYSTEM TYPE (STYPE)
	BIT 8 • 7 • 6
	0 • 0 • 0 INERTIAL
	0 • 0 • 1 NON-INERTIAL
	0 • 1 • 0 TOA ONLY (NO D/R) 0 • 1 • 1 NOT USED
	. • . • .
	1 • 1 • 1 NOT USED
9	PLATFORM DEFINITION (PD) LOGIC 0 = MOBILE LOGIC 1 = FIXED POINT
1.0	
10	NOT USED STATUS BLOCK 2

BIT	DESIGNATION
11	COMMUNITY NAV CONTROLLER (CNC) LOGIC 1 = GROUND POINT LOGIC 0 = MOBILE
12	NOT USED
13	LOGIC 1 = NON-NAV SYNC OBSERVATION SCREENED (SOS)
14	LOGIC 1 = GEO FIX OBSERVATION SCREENED (FOS)
15	LOGIC 1 = PPLI OBSERVATION SCREENED (POS)

40.5.2.18 <u>Kalman Filter Quality Status Word</u> (Block 2, Word 32)

	MSB]	LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 32			$Q_{\scriptscriptstyle{AR}}$			Q_{pp}	2			Q	PG			Q	Т	

The bit designation shall be as follows:

BIT	DESIGNATION
0-3	TIME QUALITY (Q_{T})
4-7	GEODETIC POSITION QUALITY (Q_{pg})
8-11	RELATIVE POSITION QUALITY (Q_{pR})
12-14	RELATIVE AZIMUTH QUALITY (Q _{AR})
15	NOT USED

NOTE: SEE TABLE IV-IV FOR A DEFINITION OF THE ABOVE VARIABLES.

40.5.3	SICP Status Report (Block 3).														
	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0														
wd 1	CONTROL WORD (SEE 40.5.1.1)														
wd 2	ADDRESS WORD (SEE 40.5.1.2)														
wd 3	HOST AND RELAY INHIBIT STATUS														
wd 4	NOT USED														
wd 5	STN OF CURRENT NCS														
wd 6	VOICE A CHANNEL WORD 1														
wd 7	VOICE A CHANNEL WORD 2														
wd 8	VOICE A CHANNEL WORD 3														
wd 9	VOICE B CHANNEL WORD 1 VOICE B CHANNEL WORD 2														
wd 10															
wd 11	VOICE B CHANNEL WORD 3														
wd 12	CONTROL CHANNEL WORD 1														
wd 13	CONTROL CHANNEL WORD 2														
wd 14	RESERVED FOR NICP/SICP USE														
wd 15	NOT USED														
wd 16	NOT USED														
wd 17	NOT USED														
wd 18	NOT USED														
wd 19	NOT USED														
wd 20	NOT USED														
wd 21	NOT USED														
wd 22	NOT USED														
wd 23	NOT USED														
wd 24	NOT USED														
wd 25	NOT USED														
wd 26	NOT USED														
wd 27	NOT USED														
wd 28	NOT USED														
wd 29	NOT USED														
wd 30	NOT USED														
wd 31	NOT USED														
wd 32	NOT USED														

40.5.3.1 <u>Host and Relay Inhibit Status Word</u>. (Block 3, Word 3)

	MSB]	LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 3														R I	T D F	H

The bit designation shall be as follows:

BIT	<u>DESIGNATION</u>
0	LOGIC 1 = HOST INTERFACE INACTIVE (HI) (HOST DECLARED) NOT USED BY NAVY
1	TACTICAL DATA SYSTEM FAIL (TDF) LOGIC 1 = THE SICP HAS NOT RECEIVED A VALID TERMINAL INPUT MESSAGE IN THE LAST 12 SECONDS.
2	RELAY INHIBIT (RI) LOGIC 1 = RELAY INHIBIT IS ENABLED
3-15	NOT USED

40.5.3.2 <u>Block 3, Word 4</u>. Not used.

40.5.3.3 <u>STN Of Current NCS Word</u>. (Block 3, Word 5)

	MSB]	LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 5	N C						STN	OF (CURR:	ENT	NCS					

The bit designation shall be as follows:

BIT	DESIGNATION
0-14	STN OF CURRENT NCS 0 = NOT UNDER NCS CONTROL 1-32767 = TRACK NUMBER, AS SPECIFIED IN THE TADIL J TIDP, OF THE NCS
15	NCS CHANGE (NC)

LOGIC 0 = NCS TN HAS NOT CHANGED

FOR NAVY SHIPBOARD:

For the Navy Shipboard unique values of this word, see Appendix VIII.

FOR NAVY AIRBORNE:

For the Navy Airborne unique values of this word, see Appendix VIII.

40.5.3.4 <u>Voice A Channel Word 1</u>. (Block 3, Word 6)

_		MSE	3														LSB
		15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
	wd 6	A C						STAT	1	S N			VOIC	CE A	NET		

The bit designation shall be as follows:

BIT	<u>DESIGNATION</u>
0-6	VOICE A NET NUMBER 127 = CHANNEL IS DEACTIVATED 0-126 = SELECTED NET FOR VOICE A CHANNEL
7	SPECIAL NET (SN) LOGIC 0 = NORMAL NET LOGIC 1 = SPECIAL NET
8-10	CHANNEL STATUS (STAT) BITS 10 • 9 • 8
	0 • 0 • 0 OPERATIONAL 0 • 0 • 1 NET SELECTED SHUTDOWN 0 • 1 • 0 BIT-DETECTED FAULT 0 • 1 • 1 NO STATEMENT 1 • 0 • 0 SLOT ASSIGNMENT(S) NOT • COMPATIBLE WITH VOICE • SELECTION 1 • 0 • 1 INSUFFICIENT SLOTS DUE TO PACK 1 • 1 • 0 SPARE 1 • 1 • 1 SPARE

FOR NAVY SHIPBOARD:

For the Navy Shipboard unique field, see Appendix VIII.

FOR NAVY AIRBORNE:

For the Navy Airborne unique field, see Appendix VIII.

11-14 NOT USED

15 VOICE A CHANNEL CHANGE (AC)

LOGIC 0 = NET, CHANNEL STATUS, MSEC AND SUPPRESSION HAVE NOT CHANGED

LOGIC 1 = NET, CHANNEL STATUS, SUPPRESSION OR MSEC HAS CHANGED

40.5.3.5 Voice A Channel Word 2. (Block 3, Word 7)

	MSB]	LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 7												VOIC	EΑ	MSEC	7	

The bit designation shall be as follows:

BIT DESIGNATION

0-6 MSEC CRYPTOVARIABLE LABEL (VOICE A MSEC)

0 = USE THE MSEC LOGICAL LABEL PROVIDED IN THE

SLOT ASSIGNMENT BLOCK

1-127 = MSEC LOGICAL LABEL

NOTE: THIS VALUE IS VALID IF THE SN VARIABLE IN WORD 6 IS LOGIC 0.

7-15 NOT USED

40.5.3.6 Voice A Channel Word 3. (Block 3, Word 8)

	MSB]	LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 8							R.A	ATE		M D			SSA	AEA		

The bit designation shall be as follows:

BIT DESIGNATION

0-5 VOICE A SUPPRESSED SLOT ASSIGNMENT NUMBER (SSAEA)

0 - 63 TIME SLOT BLOCK POINTER

NOTE: THIS VARIABLE IS VALID IF SS (IN BIT 15) IS LOGIC 1.

6 SUPPRESSION MODULUS (MD)

LOGIC 0 = SUPPRESSION MODULUS OF 3 LOGIC 1 = SUPPRESSION MODULUS OF 6

NOTE: THIS VARIABLE IS VALID IF SS (IN BIT 15) IS LOGIC 1.

7 Not Used

BIT DESIGNATION

8-9 CHANNEL RATE (RATE) - NAVY ONLY

BITS 9 • 8

0 • 0 16 KBPS

1 • 1 NO STATEMENT

THE OTHER VALUES ARE NOT USED BY NAVY

10-15 NOT USED

40.5.3.7 <u>Voice B Channel Word 1</u>. (Block 3, Word 9)

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 9	B C						STAT	1	S N			VOI	CE B	NET		

The bit designation shall be as follows:

<u>BIT</u> <u>DESIGNATION</u>

THE CODING FOR VOICE B CHANNEL WORD 1 SHALL BE IDENTICAL TO THAT OF VOICE A CHANNEL WORD 1.

40.5.3.8 <u>Voice B Channel Word 2</u>. (Block 3, Word 10)

	MSB]	LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 10												VOIC	ЕВ	MSEC	1	

The bit designation shall be as follows:

BIT DESIGNATION

THE CODING FOR VOICE B CHANNEL WORD 2 SHALL BE IDENTICAL TO THAT OF VOICE A CHANNEL WORD 2.

40.5.3.9 <u>Voice B Channel Word 3</u>. (Block 3, Word 11)

	MSB]	LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 11	S L S	P T	P	L			R.A	ΔTE	Ср	M D			SSA	AEB		

The bit designation shall be as follows:

BIT DESIGNATION

THE CODING FOR VOICE B CHANNEL WORD 3 SHALL BE IDENTICAL TO THAT OF VOICE A CHANNEL WORD 3.

40.5.3.10 Control Channel Word 1. (Block 3, Word 12)

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 12	CC						STAT	1	S N			CONT	rol	NET		

The bit designation shall be as follows:

<u>BIT</u> <u>DESIGNATION</u>

THE CODING FOR CONTROL CHANNEL WORD 1 SHALL BE IDENTICAL TO THAT OF VOICE A CHANNEL WORD 1.

40.5.3.11 Control Channel Word 2. (Block 3, Word 13)

	MSB]	LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 13												CONT	ROL	MSEC	7	

The bit designation shall be as follows:

<u>BIT</u> <u>DESIGNATION</u>

THE CODING FOR CONTROL CHANNEL WORD 2 SHALL BE IDENTICAL TO THAT OF VOICE A CHANNEL WORD 2.

40.5.3.12 (Block 3, Word 14). Reserved for NICP/SICP use.

40.5.4 D/R Navigation Data (Block 4).

40.5.4	D/R Navigation Data (Block 4).
	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
wd 1	CONTROL WORD (SEE 40.5.1.1)
wd 2	ADDRESS WORD (SEE 40.5.1.2)
wd 3	D/R TIME TAG
wd 4	D/R INTRACYCLE TIME
wd 5	D/R VALIDITY WORD
wd 6	LATITUDE (D/R) WORD 1
wd 7	LATITUDE (D/R) WORD 2
wd 8	LONGITUDE (D/R) WORD 1
wd 9	LONGITUDE (D/R) WORD 2
wd 10	ALTITUDE (D/R) WORD 1
wd 11	ALTITUDE (D/R) WORD 2
wd 12	X SPEED (D/R) WORD 1
wd 13	X SPEED (D/R) WORD 2
wd 14	Y SPEED (D/R) WORD 1
wd 15	Y SPEED (D/R) WORD 2
wd 16	Z SPEED (D/R) WORD 1
wd 17	Z SPEED (D/R) WORD 2
wd 18	X-AXIS AZIMUTH WORD 1
wd 19	X-AXIS AZIMUTH WORD 2
wd 20	Δ Vx WORD 1
wd 21	Δ Vx WORD 2
wd 22	Δ Vy WORD 1
wd 23	Δ Vy WORD 2
wd 24	Δ Vz WORD 1
wd 25	Δ Vz WORD 2
wd 26	Ω x WORD 1
wd 27	$\Omega_{ m x}$ word 2
wd 28	$\Omega_{ m Y}$ WORD 1
wd 29	$\Omega_{ m y}$ word 2
wd 30	$\Omega_{ m Z}$ word 1
wd 31	Ω z WORD 2
wd 32	NOT USED

40.5.4.1 <u>D/R Time Tag Word</u>. (Block 4, Word 3)

RANGE: 0 to 65535 slots

LSB: One slot $(7.8125 \times 10^{-3} \text{ seconds})$

DEFINITION: Time tag of slot during which data was valid

40.5.4.2 <u>D/R Intracycle Time Word</u> (Block 4, Word 4)

(In 2's complement)

RANGE: -32768 TO +32767 LSB: 7.8125×10^{-6} seconds

REPRESENTED RANGE: ∀ 256 Milliseconds

DEFINITION: Time of validity of D/R data with respect to the slot interrupt at the beginning of the time tag slot.

40.5.4.3 D/R Validity Word (Block 4, Word 5)

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 5	N	S	D	M			V 9	V 8	V 7	V 6	V 5	V 4	V 3	V 2	V 1	V 0

The bit designation shall be as follows:

BIT	DESIGNATION
0	LOGIC 1 = LATITUDE VALID (V0)
1	LOGIC 1 = LONGITUDE VALID (V1)
2	LOGIC 1 = ALTITUDE VALID (V2)
3	LOGIC 1 = X AND Y SPEEDS VALID (V3)
4	LOGIC 1 = Z SPEED VALID (V4)
5	LOGIC 1 = X-AXIS AZIMUTH VALID (V5)
6	LOGIC 1 = ΔVx , ΔVy , AND ΔVz VALID (V6)
7	LOGIC 1 = Ω X, Ω Y, AND Ω Z VALID (V7)
8	LOGIC 1 = X, Y, AND Z AXIS SLEW VALID (V8)
9	LOGIC 1 = LEVER ARM VALID (V9)
10-11	RESERVED FOR SICP USE

BIT DESIGNATION

12-13 DAMPING MODE (DM)

BITS 13 • 12

• • • • • • •

0 • 0 NO DAMPING

0 • 1 FREE INERTIAL

1 • 0 DAMPED MODE 1

1 • 1 DAMPED MODE 2

14-15 NAV STATE (NS)

BITS 15 • 14

• • • • • • • •

0 • 0 START-UP WITH D/R

0 • 1 NORMAL

1 • 0 FLYWHEEL

1 • 1 NOT USED

NOTE: X AND Y SPEEDS VALIDITY IS RELEVANT ONLY IF DAMPED MODE IS NO DAMPING; OTHERWISE, THIS BIT SHALL BE SET TO INVALID.

FOR NAVY SHIPBOARD:

For the Navy Shipboard unique values of this word, see Appendix VIII.

FOR NAVY AIRBORNE:

For the Navy Airborne unique values of this word, see Appendix VIII.

40.5.4.4 <u>Latitude (D/R) Words</u> (Block 4, Words 6 and 7) BAM (See Table IV-III)

DEFINITION: D/R latitude estimate; valid at intracycle time (Word 4). Also used to provide latitude set-point for non-inertial systems able to provide it.

40.5.4.5 <u>Longitude (D/R) Words</u> (Block 4, Words 8 and 9) BAM (See Table IV-III)

DEFINITION: D/R longitude estimate; valid at intracycle time (Word 4)

40.5.4.6 <u>Altitude (D/R) Words</u> (Block 4, Words 10 and 11) REAL (See Table IV-II)

UNITS: Feet

DEFINITION: NAV system estimate of Antenna Height above MSL; valid at intracycle time (Word 4)

40.5.4.7 <u>X Speed (D/R) Words</u> (Block 4, Words 12 and 13) REAL (See Table IV-II)

UNITS: Feet per second

DEFINITION: System estimate of speed in X direction (if NAV state is "START UP" or damped mode is "NO DAMPING")

Reference speed in X direction (if NAV state is not "START UP" and damped mode is not "NO DAMPING").

X, Y, Z are local vertical earth-referenced coordinates, nominally north, west, up, respectively, when X-axis azimuth is 0.0 degrees.

FOR NAVY SHIPBOARD:

For the Navy Shipboard unique values of this word, see Appendix VIII.

FOR NAVY AIRBORNE:

For the Navy Airborne unique values of this word, see Appendix VIII.

 $40.5.4.8 \quad \underline{Y \text{ Speed (D/R) Words}}$ (Block 4, Words 14 and 15) REAL (See Table IV-II)

UNITS: Feet per second

DEFINITION: System estimate of speed in Y direction.

FOR NAVY SHIPBOARD:

For the Navy Shipboard unique value of this word, see Appendix VIII.

FOR NAVY AIRBORNE:

For the Navy Airborne unique value of this word, see Appendix VIII.

40.5.4.9 <u>Z Speed (D/R) Words</u> (Block 4, Words 16 and 17) REAL (See Table IV-II)

UNITS: Feet per second

DEFINITION: System estimate of speed in Z direction.

40.5.4.10 <u>X-Axis Azimuth Words</u> (Block 4, Words 18 and 19) BAM (See Table IV-III)

DEFINITION: Direction of X axis with respect to true north. Positive is counterclockwise.

40.5.4.11 ΔVx Words (Block 4, Words 20 and 21) REAL (See Table IV-II)

UNITS: Feet per second

DEFINITION: Inertial change in X direction speed since previous D/R time of validity.

40.5.4.12 $\Delta Vy \ Words$ (Block 4, Words 22 and 23) REAL (See Table IV-II)

UNITS: Feet per second

<code>DEFINITION: Inertial change in Y direction speed since previous D/R time of validity.</code>

40.5.4.13 ΔVz Words (Block 4, Words 24 and 25) REAL (See Table IV-II)

UNITS: Feet per second

DEFINITION: Inertial change in Z direction speed since previous D/R time of validity.

40.5.4.14 Ωx Words (Block 4, Words 26 and 27) REAL (See Table IV-II)

UNITS: Radians per second

DEFINITION: Total torquing rate about X axis

40.5.4.15 $\underline{\Omega}$ y Words (Block 4, Words 28 and 29) REAL (See Table IV-II)

UNITS: Radians per second

DEFINITION: Total torquing rate about Y axis

40.5.4.16 Ωz Words (Block 4, Words 30 and 31) REAL (See Table IV-II)

UNITS: Radians per second

DEFINITION: Total torquing rate about Z axis

40.5.5	D/R Navigation Data. (Block 5)
	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
wd 1	CONTROL WORD (SEE 40.5.1.1)
wd 2	ADDRESS WORD (SEE 40.5.1.2)
wd 3	D/R INTRACYCLE TIME
wd 4	X SLEW ANGLE WORD 1
wd 5	X SLEW ANGLE WORD 2
wd 6	Y SLEW ANGLE WORD 1
wd 7	Y SLEW ANGLE WORD 2
wd 8	Z SLEW ANGLE WORD 1
wd 9	Z SLEW ANGLE WORD 2
wd 10	LEVER ARM X COMPONENTS (1_x)
wd 11	LEVER ARM Y COMPONENTS (1,)
wd 12	LEVER ARM Z COMPONENTS (l_z)
wd 13	UNCERTAINTY WORD
wd 14	NOT USED
wd 15	NOT USED
wd 16	NOT USED
wd 17	NOT USED
wd 18	NOT USED
wd 19	NOT USED
wd 20	NOT USED
wd 21	NOT USED
wd 22	NOT USED
wd 23	NOT USED
wd 24	NOT USED
wd 25	NOT USED
wd 26	NOT USED
wd 27	NOT USED
wd 28	NOT USED
wd 29	NOT USED
wd 30	NOT USED
wd 31	NOT USED
wd 32	NOT USED

40.5.5.1 D/R Intracycle Time Word (Block 5, Word 3)

Same as Block 4, Word 4. Note that the Time Tag corresponding to this block is identical to the one given in Block 4, Word 3.

40.5.5.2 <u>X Slew Angle Words</u> (Block 5, Words 4 and 5) BAM (See Table IV-III).

DEFINITION: Applied correction about D/R X axis

40.5.5.3 <u>Y Slew Angle Words</u> (Block 5, Words 6 and 7) BAM (See Table IV-III).

DEFINITION: Applied correction about D/R Y axis

40.5.5.4 Z Slew Angle Words (Block 5, Words 8 and 9) BAM (See Table IV-III).

DEFINITION: Applied correction about D/R Z axis

40.5.5.5 <u>Lever Arm Words</u> (Block 5, Words 10-12)

	MSB													LSB		
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 10		$l_{_{ imes}}$ – ANTENNA B $l_{_{ imes}}$ – ANTENNA A														
wd 11	l, - ANTENNA B l, - ANTENNA A															
wd 12		l_z – ANTENNA B l_z – ANTENNA A														

The bit designation shall be as follows:

 (l_x, l_y, l_z) define the components of the lever arm from the NAV system in use to the Antenna A (bits 0-7) and Antenna B (bits 8-15) in Platform X, Y, Z coordinates.

DESCRIPTION: 8 bits in two's complement

MSB: -1024

LSB: 8

UNITS: FEET

RANGE: -1024 to 1016

NOT USED BY NAVY AIRBORNE

40.5.5.6 Uncertainty Word (Block 5, Word 13).

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 13			-	LOCI ERTA:					EIGH ERTA:	T INTY			PO	IZON SITI ERTA		

BITS DESIGNATION

0-4 HORIZONTAL POSITION UNCERTAINTY (Pu)
DEFINITION: ONE-SIGMA UNCERTAINTY IN LATITUDE AND
LONGITUDE.

CODING

- 0 UNCERTAINTY IS GREATER THAN 60,000 FT
- 1-31 REPORTED VALUE IS THE GREATEST NUMBER FOR WHICH 60,000 X 1.575^(1-Pu) FEET IS GREATER THAN OR EQUAL TO THE HORIZONTAL POSITION UNCERTAINTY. (SEE TABLE III-I)
- 5-9 HEIGHT UNCERTAINTY (Hu)
 DEFINITION: ONE-SIGMA UNCERTAINTY IN HEIGHT.

CODING

- 0 UNCERTAINTY IS GREATER THAN 60,000 FT
- 1-31 REPORTED VALUE IS THE GREATEST NUMBER FOR WHICH 60,000 X 1.575^(1-Hu) FEET IS GREATER THAN OR EQUAL TO THE HEIGHT UNCERTAINTY. (SEE TABLE III-I)
- 10-14 VELOCITY UNCERTAINTY (Vu)
 DEFINITION: ONE-SIGMA UNCERTAINTY IN HORIZONTAL
 COMPONENTS OF VELOCITY.

CODING

- O UNCERTAINTY IS GREATER THAN 300,000 FT/SEC
- 1-31 REPORTED VALUE IS THE GREATEST NUMBER FOR WHICH 400 X 0.75 $^{(\text{Vu})}$ FEET/SEC. IS GREATER THAN OR EQUAL TO THE VELOCITY UNCERTAINTY.
- 15 NOT USED

40.5.6	JTIDS Navigation Data. (Block 6)								
	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0								
wd 1	CONTROL WORD (SEE 40.5.1.1)								
wd 2	ADDRESS WORD (SEE 40.5.1.2)								
wd 3	TIME TAG								
wd 4	GEODETIC LATITUDE WORD 1								
wd 5	EODETIC LATITUDE WORD 2								
wd 6	GEODETIC LONGITUDE WORD 1								
wd 7	GEODETIC LONGITUDE WORD 2								
wd 8	GEODETIC ALTITUDE WORD 1								
wd 9	GEODETIC ALTITUDE WORD 2								
wd 10	GEODETIC X SPEED WORD 1								
wd 11	GEODETIC X SPEED WORD 2								
wd 12	GEODETIC Y SPEED WORD 1								
wd 13	GEODETIC Y SPEED WORD 2								
wd 14	GEODETIC AZIMUTH CORRECTION WORD 1								
wd 15	GEODETIC AZIMUTH CORRECTION WORD 2								
wd 16	EAST-WEST RADIUS OF CURVATURE WORD 1								
wd 17	EAST-WEST RADIUS OF CURVATURE WORD 2								
wd 18	Pu WORD 1								
wd 19	Pu WORD 2								
wd 20	Pv WORD 1								
wd 21	Pv WORD 2								
wd 22	Pw WORD 1								
wd 23	Pw WORD 2								
wd 24	U SPEED WORD 1								
wd 25	U SPEED WORD 2								
wd 26	V SPEED WORD 1								
wd 27	V SPEED WORD 2								
wd 28	W SPEED WORD 1								
wd 29	W SPEED WORD 2								
wd 30	NOT USED								
wd 31	NOT USED								
wd 32	NOT USED								

40.5.6.1 Time Tag Word (Block 6, Word 3)

Format and definition same as Block 4, Word 3

40.5.6.2 <u>Geodetic Latitude (λ) Words</u> (Block 6, Words 4 and 5) BAM (See Table IV-III)

DEFINITION: Present geodetic latitude (WGS-84). (If Navy platform, implies WGS-72).

40.5.6.3 <u>Geodetic Longitude (ϕ) Words</u> (Block 6, Words 6 and 7) BAM (See Table IV-III)

DEFINITION: Present geodetic longitude (WGS-84). (If Navy platform, implies WGS-72).

40.5.6.4 <u>Geodetic Altitude (h) Words</u> (Block 6, Words 8 and 9) REAL (See Table IV-II)

UNITS: Feet

DEFINITION: Present altitude referenced to mean sea level (MSL) (WGS-84). (If Navy platform, implies WGS-72).

40.5.6.5 <u>Geodetic X Speed (Vx) Words</u> (Block 6, Words 10 and 11) REAL (See Table IV-II)

UNITS: Feet per second

DEFINITION: Estimated speed in X direction

X and Y are local vertical earth-referenced coordinates nominally north and west, respectively, when wander angle is 0.0 degrees.

40.5.6.6 <u>Geodetic Y Speed (Vy) Words</u> (Block 6, Words 12 and 13) REAL (See Table IV-II)

UNITS: Feet per second

DEFINITION: Estimated speed in Y direction

X and Y are local vertical earth-referenced coordinates nominally north and west, respectively, when wander angle is 0.0 degrees.

40.5.6.7 <u>Geodetic Azimuth Correction (Θz) Words</u> (Block 6, Words 14 and 15) BAM (See Table IV-III)

DEFINITION: The angular difference between the platform X axis and the Terminal's estimate of reference X-axis. The sense is positive counter-clockwise from platform X axis to reference X axis.

40.5.6.8 <u>East-West Radius of Curvature (r_{ew}) Words</u> (Block 6, Words 16 and 17) REAL (See Table IV-II)

UNITS: Feet

DEFINITION: Length of line segment, normal to the WGS-84 spheroid, from present position to spheroid axis of rotation. (If Navy platform, implies WGS-72).

40.5.6.9 <u>Pu Words</u> (Block 6, Words 18 and 19) REAL (See Table IV-II)

UNITS: Feet

DEFINITION: U component of relative position in grid defined by estimated grid origin and estimated relative grid azimuth. (SEE 40.11)

40.5.6.10 <u>Pv Words</u> (Block 6, Words 20 and 21) REAL (See Table IV-II)

UNITS: Feet

DEFINITION: V component of relative position in grid defined by estimated grid origin and estimated relative grid azimuth. (SEE 40.11)

40.5.6.11 <u>Pw Words</u> (Block 6, Words 22 and 23) REAL (See Table IV-II)

UNITS: Feet

DEFINITION: W component of relative position in grid defined by estimated grid origin and estimated relative grid azimuth. (SEE 40.11)

40.5.6.12 <u>U Speed (Vu) Words</u> (Block 6, Words 24 and 25) REAL (See Table IV-II)

UNITS: Feet per second

DEFINITION: Speed in relative grid U direction

40.5.6.13 <u>V Speed (Vv) Words</u> (Block 6, Words 26 and 27) REAL (See Table IV-II)

UNITS: Feet per second

DEFINITION: Speed in relative grid V direction

40.5.6.14 <u>W Speed (Vw) Words</u> (Block 6, Words 28 and 29) REAL (See Table IV-II)

UNITS: Feet per second

DEFINITION: Speed in relative grid W direction

40.5.7	JTIDS Navigation Data. (Block 7)								
	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0								
wd 1	CONTROL WORD (SEE 40.5.1.1)								
wd 2	ADDRESS WORD (SEE 40.5.1.2)								
wd 3	NOT USED								
wd 4	NOT USED								
wd 5	STIMATED GRID-ORIGIN LATITUDE WORD 1								
wd 6	ESTIMATED GRID-ORIGIN LATITUDE WORD 2								
wd 7	ESTIMATED GRID-ORIGIN LONGITUDE WORD 1								
wd 8	ESTIMATED GRID-ORIGIN LONGITUDE WORD 2								
wd 9	ESTIMATED RELATIVE-GRID AZIMUTH WORD 1								
wd 10	ESTIMATED RELATIVE-GRID AZIMUTH WORD 2								
wd 11	RESERVED FOR COMMON GRID ORIGIN LATITUDE WORD 1								
wd 12	RESERVED FOR COMMON GRID ORIGIN LATITUDE WORD 2								
wd 13	RESERVED FOR COMMON GRID ORIGIN LONGITUDE WORD 1								
wd 14	ESERVED FOR COMMON GRID ORIGIN LONGITUDE WORD 2								
wd 15	RESERVED FOR COMMON GRID ID								
wd 16	NORTH SPEED OF MEDIUM OR X-DAMPING STATE WORD 1								
wd 17	NORTH SPEED OF MEDIUM OR X-DAMPING STATE WORD 2								
wd 18	WEST SPEED OF MEDIUM OR Y-DAMPING STATE WORD 1								
wd 19	WEST SPEED OF MEDIUM OR Y-DAMPING STATE WORD 2								
wd 20	X-AXIS MISALIGNMENT CORRECTION $\Theta_{_{\mathrm{x}}}$ WORD 1								
wd 21	X-AXIS MISALIGNMENT CORRECTION $\Theta_{_{\mathrm{x}}}$ WORD 2								
wd 22	Y-AXIS MISALIGNMENT CORRECTION $\Theta_{_{\mathrm{y}}}$ WORD 1								
wd 23	Y-AXIS MISALIGNMENT CORRECTION $\Theta_{_{_{\mathrm{Y}}}}$ WORD 2								
wd 24	WANDER ANGLE WORD 1								
wd 25	WANDER ANGLE WORD 2								
wd 26	RELATIVE-GRID REFERENCE ANGLE WORD 1								
wd 27	RELATIVE-GRID REFERENCE ANGLE WORD 2								
wd 28	REL NAV KALMAN FILTER STATUS WORD 1								
wd 29	TRANSMITTED QUALITY STATUS WORD								
wd 30	NOT USED								
wd 31	NOT USED								
wd 32	NOT USED								

- 40.5.7.1 Block 7, Words 3 and 4. NOT USED
- 40.5.7.2 Estimated Grid-Origin Latitude (λ_{De}) Words (Block 7, Words 5 and 6) BAM (See Table IV-III)

DEFINITION: Grid origin latitude used to convert relative positions in the grid to best estimate of geodetic position.

40.5.7.3 <u>Estimated Grid-Origin Longitude (ϕ_{oe}) Words</u> (Block 7, Words 7 and 8) BAM (See Table IV-III)

DEFINITION: Grid origin longitude used to convert relative positions in the grid to best estimate of geodetic position.

40.5.7.4 <u>Estimated Relative-Grid Azimuth (£) Words</u> (Block 7, Words 9 and 10) BAM (See Table IV-III)

DEFINITION: The angular difference between the north axis and the relative-grid v axis at the estimated grid origin. The sense is positive counterclockwise from north axis to grid v axis.

- 40.5.7.5 through 40.5.7.7 <u>Reserved Words for Common Grid Origin</u> (Block 7, Words 11 to 15). Reserved for common grid-origin latitude, common grid-origin longitude and common grid ID.
- 40.5.7.8 North Speed of Medium (Vwn) Words or X-Damping State (Vbx) Words 1 and 2. (Block 7, Words 16 and 17) REAL (See Table IV-II)

UNITS: Feet per second

DEFINITION: Estimated X-velocity damping error (inertial systems only) or estimated water motion speed in North direction (noninertial systems only).

FOR NAVY SHIPBOARD:

For the Navy Shipboard unique values of this word, see Appendix VIII.

FOR NAVY AIRBORNE:

For the Navy Airborne unique values of this word, see Appendix VIII.

40.5.7.9 <u>West Speed of Medium (Vww) Words or Y-Damping State (Vby) Words</u> 1 and 2. (Block 7, Words 18 and 19) REAL (See Table IV-II)

UNITS: Feet per second

DEFINITION: Estimated y-velocity damping error (inertial systems only) or estimated water motion speed in West direction (non-inertial systems only).

FOR NAVY SHIPBOARD:

For the Navy Shipboard unique values of this word, see Appendix VIII.

FOR NAVY AIRBORNE:

For the Navy Airborne unique values of this word, see Appendix VIII.

40.5.7.10 <u>X-Axis Misalignment Correction (Θ x) Words</u> (Block 7, Words 20 and 21) BAM (See Table IV-III)

DEFINITION: Platform misalignment about the X-axis with respect to the terminal's estimated local level frame. The sense of the rotation is positive counter-clockwise from the terminal's local level frame to the platform frame (inertial systems only).

40.5.7.11 Y-Axis Misalignment Correction (Θ y) Words (Block 7, Words 22 and 23) BAM (See Table IV-III)

DEFINITION: Platform misalignment about the Y-axis with respect to the terminal's estimated local level frame. The sense of the rotation is positive counter-clockwise from the terminal's local level frame to the platform frame (inertial systems only).

40.5.7.12 <u>Wander Angle (α) Words</u> (Block 7, Words 24 and 25) BAM (See Table IV-III)

DEFINITION: The angular difference between the north axis estimate and reference X-axis estimate. The sense is positive counterclockwise from north axis to X-axis.

40.5.7.13 Relative-Grid Reference Angle ($\alpha_{_{\rm g}}$) Words (Block 7, Words 26 and 27) BAM (See Table IV-III)

DEFINITION: The angular difference between the north axis at the estimated grid origin and the north axis at the reference grid origin. The sense is positive counterclockwise from north axis at estimated grid origin to reference north axis.

40.5.7.14 Rel Nav Kalman Filter Status Word 1. (Block 7, Word 28)

		MSB]	LSB
		15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd	28	р О п	F O S	S 0 S		C N C		P D	2	STYPE		K F R	K F A		RNI	KFS	

The bit designation shall be as follows:

bit design	ation shall be as follows:
BIT	DESIGNATION
0-3	REL NAV KALMAN FILTER STATUS (RNKFS)
	BIT 3 • 2 • 1 • 0
	0 • 0 • 0 • 0 INITIALIZATION/ NO FILTER OPERATION 0 • 0 • 0 • 1 NAVIGATION RESET 0 • 0 • 1 • 0 CLOCK BIAS INITIALIZATION 0 • 0 • 1 • 1 GRID ACQUISITION 0 • 1 • 0 • 0 SPARE 0 • 1 • 0 • 1 GEODETIC OBSERVATION PROCESSING
	0 • 1 • 1 • 0 GEODETIC AND GRID • • • OBSERVATION PROCESSING
	THE OTHER VALUES ARE NOT USED
	THE OTHER VALUES ARE NOT USED
4	LOGIC 1 = KALMAN FILTER ALTERATION (KFA)
5	LOGIC 1 = KALMAN FILTER RESET (KFR)
6-8	SYSTEM TYPE (STYPE)
	BIT 8 • 7 • 6 0 • 0 • 0 INERTIAL 0 • 0 • 1 NON-INERTIAL 0 • 1 • 0 TOA ONLY (NO D/R)
	THE OTHER VALUES ARE NOT USED
9	PLATFORM DEFINITION (PD) LOGIC 0 = MOBILE LOGIC 1 = FIXED POINT
10	NOT USED

R207A045C DATE <u>13 NOVEMBER 1997</u>

BIT	DESIGNATION
11	COMMUNITY NAV CONTROLLER (CNC) LOGIC 1 = GROUND POINT LOGIC 0 = MOBILE
12	NOT USED
13	LOGIC 1 = NON-NAV SYNC OBSERVATION SCREENED (SOS)
14	LOGIC 1 = GEO FIX OBSERVATION SCREENED (FOS)
15	LOGIC 1 = PPLI OBSERVATION SCREENED (POS)

40.5.7.15 <u>Transmitted Quality Status Word</u>. (Block 7, Word 29)

	MSB														I	LSB	
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	
wd 29			$Q_{\mathtt{AR}}$		$Q_{_{\mathrm{PR}}}$					Q	PG		$Q_{\scriptscriptstyle{\mathrm{T}}}$				

The bit designation shall be as follows:

BIT	<u>DESIGNATION</u>
0-3	TIME QUALITY $(Q_{_{\mathrm{T}}})$
4-7	GEODETIC POSITION QUALITY (Q_{pg})
8-11	RELATIVE POSITION QUALITY (Q_{pR})
12-14	RELATIVE AZIMUTH QUALITY (Q_{AR})
15	NOT USED

NOTE: SEE Table IV-V FOR A DEFINITION OF THE ABOVE VARIABLES.

40.5.8	BIT Status Report. (Block 8)									
	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0									
wd 1	CONTROL WORD (SEE 40.5.1.1)									
wd 2	ADDRESS WORD (SEE 40.5.1.2)									
wd 3	TERMINAL FAIL DDP WORD 1									
wd 4	RMINAL FAIL DDP WORD 2									
wd 5	TERMINAL FAIL R/T WORD 3									
wd 6	TERMINAL FAIL R/T WORD 4									
wd 7	TACAN FAIL R/T (TACAN) WORD 5 (NAVY AIRBORNE AND F-15 ONLY)									
wd 8	TERMINAL FAIL IU WORD 6 (F-15 ONLY)									
wd 9	TACAN FAIL IU (TACAN) WORD 7 (NAVY AIRBORNE AND F-15 ONLY)									
wd 10	TERMINAL FAIL BATTERY WORD 8									
wd 11	TERMINAL FAIL RF LOOPBACK WORD 9									
wd 12	TERMINAL FAIL IU WORD 10									
wd 13	MESSAGE STATUS WORD									
wd 14	LRU BIT AND STATUS SUMMARY WORD									
wd 15	SRA SUMMARY WORD (NOT USED FOR F-15 AND NAVY AIRBORNE)									
wd 16	SDU ALERT WORD									
wd 17	DEGRADED PERFORMANCE WORD									
wd 18	IPF FAIL SUMMARY WORD R/T-HPA									
wd 19	START-UP/INTERRUPT WORD									
wd 20	NICP/SICP DEGRADED OPERATION WORD									
wd 21	TERMINAL FAIL HPAG WORD 11 (NAVY SHIPBOARD AND AIRBORNE ONLY)									
wd 22	NOT USED									
wd 23	NOT USED									
wd 24	NOT USED									
wd 25	NOT USED									
wd 26	NOT USED									
wd 27	NOT USED									
wd 28	NOT USED									
wd 29	NOT USED									
wd 30	NOT USED									
wd 31	NOT USED									
wd 32	NOT USED									

NOTE: STATUS BLOCK 8 INDICATIONS ARE RELEVANT ONLY WHEN ONGOING STATUS WORD 1 INDICATES A FAILURE OR DEGRADATION (STATUS BLOCK 1, WORD 3).

40.5.8.1 <u>Terminal Fail DDP (TDMA) Word 1</u>. (Block 8, Word 3)

	MSB]	LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 3	M B T E S T F	I F L B F L	P T P M B	M B T E S T		G M A F	G M F	C H F					N I C E X C	R O M F	R A M F	CPDF

The bit designation shall be as follows:

BIT	<u>DESIGNATION</u>
0	LOGIC 1 = NICP CPU FAIL (CPUF)
1	LOGIC 1 = NICP RAM FAIL (RAMF)
2	LOGIC 1 = NICP ROM FAIL (ROMF)
3	LOGIC 1 = NICP CPU TRAP FAILURE (NICEXC) (68030 ONLY)

NOTE: FOR THE NAVY SHIPBOARD AND NAVY AIRBORNE UNIQUE VALUE OF THIS BIT, see Appendix VIII.

4-7	SPARE
8	LOGIC 1 = CHRONOMETER FAIL (CHF)
9	LOGIC 1 = GLOBAL MEMORY TEST FAIL (GMF)
10	LOGIC 1 = GLOBAL MEMORY ADDRESS TEST FAIL (GMAF)
11	SPARE
12	LOGIC 1 = NICP/PTP MAILBOX TEST FAIL (MBTEST) DETERMINED BY THE PTP.
13	LOGIC 1 = NICP/PTP MAILBOX TEST FAIL (PTPMB). DETERMINED BY THE NICP.
14	LOGIC 1 = IF LOOPBACK FAIL (IFLBFL)
15	LOGIC 1 = SICP/NICP MAILBOX TEST FAILURE (MBTESTF). DETERMINED BY THE SICP.
FOR E-3:	DETERMINED BY THE SICP.

STATUS BLOCK 8

For the E-3 unique Ongoing Status Word 1, see Appendix X.

40.5.8.2 <u>Terminal Fail DDP (TDMA) Word 2</u>. (Block 8, Word 4)

	MSB]	LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 4	D R T I F	C O R R F	P T P T E S T	B B C F	P L L F	D I G L B F L	C P S M F	P T P F L	R S E D F	S D D F	C T P F	X M I T F	OSCF	B I T B F	B I T R F	R T B F

The bit designation shall be as follows:

BIT	<u>DESIGNATION</u>
0	LOGIC 1 = REFERENCE TIME BASE FAIL (RFBF)
1	LOGIC 1 = R SUPPLY FAIL (BITRF)
2	LOGIC 1 = B SUPPLY FAIL (BITBF)
3	LOGIC 1 = OSCILLATOR FAIL (OSCF)
4	LOGIC 1 = XMIT TIMING AND CONTROL FAIL (XMITF)
5	LOGIC 1 = CTP FAIL (CTPF)
6	LOGIC 1 = SYNC DATA DET FAIL (SDDF)
7	LOGIC 1 = RSED FAIL (RSEDF)
8	LOGIC 1 = PTP FAIL (PTPFL)
9	LOGIC 1 = CPSM FAIL (CPSMF)
10	LOGIC 1 = DIGITAL LOOPBACK FAIL (DIGLBFL)
11	LOGIC 1 = RFG FAIL (PLLF)
12	LOGIC 1 = BASEBAND CONVERTER FAIL (BBCF)

BIT	DESIGNATION
13	LOGIC 1 = PTP SELF TEST FAIL (PTPTEST)
14	LOGIC 1 = CORRELATOR FAIL (CORRF)
15	LOGIC 1= DDP-R/T INTERFACE FAIL (DRTIF)

FOR NAVY SHIPBOARD:

For the Navy Shipboard unique values of this word, see Appendix VIII.

FOR NAVY AIRBORNE:

For the Navy Airborne unique values of this word, see Appendix VIII.

FOR E-3:

For the E-3 unique Ongoing Status Word 1, see Appendix X.

40.5.8.3 <u>Terminal Fail R/T (TDMA) Word 3</u>. (Block 8, Word 5)

	MSB]	LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 5					T R T T	C P S M D			T S D I P F				T M W A F L	R S C I	S Y N T H F	R C V R F

The bit designation shall be as follows:

BIT	<u>DESIGNATION</u>
0	LOGIC 1 = RECEIVER FAIL (RCVRF)
1	LOGIC 1 = SYNTHESIZER FAIL (SYNTHF)
2	LOGIC 1 = RECEIVER/SYNTHESIZER CIRCUMVENTION IN EFFECT (RSCI)
3	LOGIC 1 = TUNE MODE WRAPAROUND FAIL (TMWAFL)
4-6	SPARE
7	LOGIC 1 = TRANSMISSION SHUTDOWN DUE TO IPF FAILURE (TSDIPF)
8-9	NOT USED
10	LOGIC 1 = CPSM NOT DETECTED (CPSMD)
11	LOGIC 1 = TEST RTT LOOPBACK FAILURE (TRTT)
12-15	SPARE

FOR NAVY SHIPBOARD:

For the Navy Shipboard unique values of this word, see Appendix VIII.

FOR NAVY AIRBORNE:

For the Navy Airborne unique values of this word, see Appendix VIII.

FOR E-3:

For the E-3 unique Ongoing Status Word 1, see Appendix X.

40.5.8.4 <u>Terminal Fail R/T (TDMA) Word 4</u>. (Block 8, Word 6)

	MSB														I	SB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 6	H I S S	H I S L	R T S R U F L				P A O T F		P O A N T A	P O A N T B		IFFF	OOBFF	1 0 3 0 M F	P W F	R T D M A F

The bit designation shall be as follows:

BIT	DESIGNATION
0	LOGIC 1 = R/T TDMA FAIL (RTTDMAG)
1	LOGIC 1 = PULSE WIDTH FAIL (PWF)
2	LOGIC 1 = $1030/1090$ MONITOR FAIL (1030MF)
3	LOGIC 1 = OUT-OF-BOUNDS FREQUENCY FAIL (OOBFF)
4	LOGIC 1 = IFF FREQUENCY COUNTER FAIL (IFFF)
5	SPARE
6	LOGIC 1 = Po ANT B > +1 dB or < -3 dB (POANTB)
7	LOGIC 1 = Po ANT A > +1 dB or < -3 dB (POANTA)
8	NOT USED
9	LOGIC 1 = PA OVER TEMPERATURE (PAOTF)
10-12	SPARE
13	LOGIC 1 = R/T SRU FAIL (RTSRUFL)
14	LOGIC 1 = LONG TERM HISTOGRAM FAIL (HISL)

BIT DESIGNATION

15 LOGIC 1 = SHORT TERM HISTOGRAM FAIL (HISS)

FOR NAVY SHIPBOARD:

For the Navy Shipboard unique values of this word, see Appendix VIII.

FOR NAVY AIRBORNE:

For the Navy Airborne unique values of this word, see Appendix VIII.

FOR E-3:

For the E-3 unique Ongoing Status Word 1, see Appendix X.

40.5.8.5 TACAN Fail R/T (TACAN) Word 5. (Block 8, Word 7) F-15 ONLY

	MSB														L	SB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 7	P W R U P	A G C F	R E C S E N S F	P W R A M P	S Y N T H F	R A M F	R O M F	C P U F	N O A C K						F A I L I N D	

The bit designation shall be as follows:

BIT	DESIGNATION
0	SPARE
1	FAILURE INDICATOR (FAIL IND) LOGIC 1 = TEST FAILURE LOGIC 0 = GOOD RADIO
2-6	NOT USED
7	LOGIC 1 = NO R/T ACKNOWLEDGEMENT (NO ACK)
8	LOGIC 1 = CPU FAILURE (CPUF)
9	LOGIC 1 = ROM FAILURE (ROMF)
10	LOGIC 1 = RAM FAILURE (RAMF)
11	LOGIC 1 = SYNTHESIZER FAILURE LOSS OF LOCK (SYNTHF)
12	LOGIC 1 = POWER LEVEL (ENHANCED TACAN) FAILURE (PWR AMP F)
13	LOGIC 1 = RECEIVER SENSITIVITY FAILURE (REC SENSF)
14	LOGIC 1 = AGC FUNCTION FAILURE (AGCF)
15	LOGIC 1 = POWER-UP SELF TEST FAILURE (PWR UP F)

FOR NAVY AIRBORNE:

For the Navy Airborne unique values of this word, see Appendix VIII.

40.5.8.6 <u>Terminal Fail IU (TDMA) Word 6</u>. (Block 8, Word 8)

	MSB														L	SB	
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	ı
wd 8			S I C P S T	C T P W F	P T P W F	R T I F	D D P I F	I U I F	S R U F M	T D M A F		M U X F				B T C D W A	

BIT	DESIGNATION
0	LOGIC 1 = BIT CARD WRAP AROUND FAIL (BTCDWA) (ARMY ONLY)
1-3	NOT USED
4	LOGIC 1 = MUX FAIL (MUXF)
5	NOT USED
6	LOGIC 1 = TAILORED TDMA FAIL (TTDMAF) (F-15 ONLY)
7	LOGIC 1 = SRA INITIATE IN FALSE MODE (SRAFM) (ARMY ONLY)
8	LOGIC 1 = IU FLAG WRAPAROUND INDICATION FALSE (IUIF) (ARMY ONLY)
9	LOGIC 1 = DDP FLAG WRAPAROUND INDICATION FALSE (DDPIF) (ARMY ONLY)
10	LOGIC 1 = RT FLAG WRAPAROUND INDICATION FALSE (RTIF) (ARMY ONLY)
11	LOGIC 1 = PTP BIT INIT WRAPAROUND FAIL (PTPWF) (ARMY ONLY)

FOR NAVY SHIPBOARD:

SPARE

For the Navy Shipboard unique values of this word, see Appendix VIII.

FOR NAVY AIRBORNE:

For the Navy Airborne unique values of this word, see Appendix VIII.

FOR E-3:

14-15

For the E-3 unique Ongoing Status Word 1, see Appendix X.

40.5.8.7 TACAN Fail IU (TACAN) Word 7. (Block 8, Word 9)

	MSB														I	SB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 9							T A C F									

The bit designation shall be as follows:

BIT DESIGNATION

0-8 NOT USED

LOGIC 1 = TACAN IU FAIL (TACF) (F-15 ONLY)

10-15 NOT USED

FOR NAVY AIRBORNE:

For the Navy Airborne unique values of this word, see Appendix VIII.

40.5.8.8 Terminal Fail Battery Word 8. (Block 8, Word 10)

	MSB														L	SB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 10										B S T I F						

The bit designation shall be as follows:

SPARE

BIT **DESIGNATION** 0 - 5SPARE LOGIC 1 = NICAD BATTERY FAIL (BSTIF) 7-15

40.5.8.9 Terminal Fail RF Loopback (TDMA) Word 9. (Block 8, Word 11)

	MSB														I	ıSB	
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	ĺ
wd 11	I S 2	5 Γ	L B E	L B D	L B C	L B B	L B A	L B 9	L B 8	L B 7	L B 6	L B 5	L B 4	L B 3	L B 2	L B 1	

The bit designation shall be as follows:

BIT	DESIGNATION
0	LOGIC 1 = STANDARD FT UNCODED MESSAGE TYPE FAILURE (LB1)
1	LOGIC 1 = PACKED 2 DP FT UNCODED MESSAGE TYPE FAILURE (LB2)
2	LOGIC 1 = PACKED 2 DP FT CODED MESSAGE TYPE FAILURE (LB3)
3	LOGIC 1 = PACKED 2 SP FF CODED MESSAGE TYPE FAILURE (LB4)
4	LOGIC 1 = STANDARD FF CODED MESSAGE TYPE FAILURE (LB5)
5	LOGIC 1 = PACKED 2 DP FF CODED MESSAGE TYPE FAILURE (LB6)
6	LOGIC 1 = STANDARD FT CODED MESSAGE TYPE FAILURE (LB7)
7	LOGIC 1 = PACKED 4 SP FF CODED MESSAGE TYPE FAILURE (LB8)
8	LOGIC 1 = PACKED 2 SP FT UNCODED MESSAGE TYPE FAILURE (LB9)
9	LOGIC 1 = PACKED 4 SP FT UNCODED MESSAGE TYPE FAILURE (LBA)
10	LOGIC 1 = PACKED 4 SP FT CODED MESSAGE TYPE FAILURE (LBB)
11	LOGIC 1 = PACKED 2 SP FT CODED MESSAGE TYPE FAILURE (LBC)

IV-77

BIT	DESIGNATION
12	LOGIC 1 = TEST RTT LOOPBACK FAILURE (LBD)
13	LOGIC 1 = RTT INT 2A MESSAGE TYPE FAILURE (LBE)
14-15	CURRENT LOOPBACK STATUS (SLBSTAT)
	D.T. 1. 1.4

BIT 15 • 14

0 • 0 TRANSMITTED: NO ERRORS
0 • 1 LOOPBACK DECODE FAIL
1 • 0 TOA COMPARISON FAIL
1 • 1 NO LOOPBACK RECEIVED

FOR NAVY SHIPBOARD:

For the Navy Shipboard unique values of this word, see Appendix VIII.

FOR NAVY AIRBORNE:

For the Navy Airborne unique values of this word, see Appendix VIII.

FOR E-3:

For the E-3 unique Ongoing Status Word 1, see Appendix X.

40.5.8.10 Terminal Fail IU (TDMA) Word 10. (Block 8, Word 12)

	MSB]	LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 12								V P T W D 2 F	V P T W D 1	V 2 F	V 1 F	T I O F		S I C C P U	SICROM	S I C R A M

The bit designation shall be as follows:

BIT	DESIGNATION
0	LOGIC 1 = SICP RAM FAIL (SICRAM)
1	LOGIC 1 = SICP ROM FAIL (SICROM)
2	LOGIC 1 = SICP CPU TRAP FAILURE (SICCPU) (68030 ONLY)
3	NOT USED

BIT	DESIGNATION
4	LOGIC 1 = TAILORED I/O FAIL (TIOF) - NAVY AIRBORNE AND F- 15 ONLY
5	LOGIC 1 = VOICE 1 FAIL (V1F)
6	LOGIC 1 = VOICE 2 FAIL (V2F)
7	LOGIC 1 = VOICE PROCESSOR TEST WORD 1 FAIL (VPTWD1F)
8	LOGIC 1 = VOICE PROCESSOR TEST WORD 2 FAIL (VPTWD2F)
9-15	SPARE

FOR E-3:

For the E-3 unique Ongoing Status Word 1, see Appendix X.

40.5.8.11 Message Status Word. (Block 8, Word 13)

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 13					T M F				M N A		N R T T R	N M E S S	M E R			

The bit designation shall be as follows:

BIT	<u>DESIGNATION</u>
0-2	NOT USED
3	LOGIC 1 = UNCORRECTABLE MESSAGE ERROR RATE (MER)
4	LOGIC 1 = NO MESSAGE RECEPTION (NMESS)
5	LOGIC 1 = NO RESPONSE TO RTT INTERROGATIONS (NRTTR)
6	NOT USED
7	LOGIC 1 = MESSAGE NOT ACKNOWLEDGED (MNA)
8-10	NOT USED
11	LOGIC 1 = TEST MESSAGE FAIL (TMF)
12-15	NOT USED

FOR NAVY SHIPBOARD:

For the Navy Shipboard unique values of this word, see Appendix VIII.

FOR NAVY AIRBORNE:

For the Navy Airborne unique values of this word, see Appendix VIII.

FOR E-3:

For the E-3 unique Ongoing Status Word 1, see Appendix X.

40.5.8.12 <u>LRU BIT and Status Summary Word</u>. (Block 8, Word 14)

	MSB														I	JSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 14	W D 8, 12	W D 5,	W D 3,	W D 1 6	W D 1	B S T I F	D E G P R	MESSF	I P F F	S D U A L	R T F	I U F	D D R F	T A C F	T D M A F	T E R M F

BIT	DESIGNATION
0	LOGIC 1 = TERMINAL FAIL (TERMF)
1	LOGIC 1 = TDMA FAIL (TDMAF)
2	LOGIC 1 = TACAN FAIL (TACF)
3	LOGIC 1 = DDP FAIL (DDPF)
4	LOGIC 1 = IU FAIL (IUF)
5	LOGIC 1 = R/T FAIL (RTF)
6	LOGIC 1 = SDU ALERT (SDUAL)
7	LOGIC 1 = IPF FAIL (IPFF)
8	LOGIC 1 = MESSAGE FAIL (MESSF)
9	LOGIC 1 = DEGRADED PERFORMANCE (DEGPR)
10	LOGIC 1 = NICAD BATTERY FAIL (BSTIF)
11	LOGIC 1 = ANY BIT SET IN BLOCK 8, WORD 11 (WD 11)
12	LOGIC 1 = ANY BIT SET IN BLOCK 8, WORD 16 (WD 16)
13	LOGIC 1 = ANY BIT SET IN BLOCK 8, WORD 3 OR 4 (WD $3,4$)

BIT DESIGNATION

LOGIC 1 = ANY BIT SET IN BLOCK 8, WORD 5 OR 6 (WD 5,6)

LOGIC 1 = ANY BIT SET IN BLOCK 8, WORD 8 OR 12 (WD 8,12)

FOR NAVY SHIPBOARD:

For the Navy Shipboard unique values of this word, see Appendix VIII.

FOR NAVY AIRBORNE:

For the Navy Airborne unique values of this word, see Appendix VIII.

FOR E-3:

For the E-3 unique Ongoing Status Word 1, see Appendix X.

40.5.8.13 SRU Summary Word. (Block 8, Word 15) (NOT USED FOR F-15)

	MSB														L	SB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 15		,	UNIT	ı		SRUTI	MPF			SRUS	SMPF			SRU	MPF	

The bit designation shall be as follows:

BIT DESIGNATION

0-3 SRU MOST PROBABLE FAILURE INDICATOR (SRUMPF)

BIT 3 • 2 • 1 • 0

0 • 0 • 0 • 0 NO FAILURE

0 • 0 • 0 • 1 CARD A1 FAILED

. • . • . • .

. • . • . • .

1 • 1 • 1 • 1 CARD A15 FAILED

4-7 SRU SECOND MOST PROBABLE FAILURE INDICATOR (SRUSMPF)

BIT 7 • 6 • 5 • 4

0 • 0 • 0 • 0 NO FAILURE

0 • 0 • 0 • 1 CARD A1 FAILED

. • . • . • .

.

. • . • . • .

1 • 1 • 1 • 1 CARD A15 FAILED

8-11 SRU THIRD MOST PROBABLE FAILURE INDICATOR (SRUTMPF)

BIT 11 • 10 • 9 • 8

0 • 0 • 0 • 0 NO FAILURE

. . .

. . .

1 • 1 • 1 • 1 CARD A15 FAILED

0 • 0 • 1 CARD A1 FAILED

BIT DESIGNATION

12-14 UNIT - INDICATES THE WRA IN WHICH THE FAILED CARDS ARE LOCATED - NAVY SHIP ONLY

BIT 14 • 13 • 12

0 • 0 • 0 NO FAILURE
0 • 0 • 1 R/T
0 • 1 • 0 DDP
0 • 1 • 1 IU
1 • 0 • 0 NOT USED
1 • 1 • 0 BATTERY
1 • 1 • 1 NOT USED

15 RESERVED FOR INTERNAL NICP/SICP USE

FOR NAVY SHIPBOARD:

For the Navy Shipboard unique values of this word, see Appendix VIII.

FOR NAVY AIRBORNE:

For the Navy Airborne unique values of this word, see Appendix VIII.

FOR E-3:

For the E-3 unique Ongoing Status Word 1, see Appendix X.

40.5.8.14 <u>SDU Alert Word</u>. (Block 8, Word 16)

	MSB]	LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 16		V A R 7	V A R 6	V A R 5	V A R 4	V A R 3	V A R 2	V A R 1	V A R O	A L A R M						

The bit designation shall be as follows:

BIT	DESIGN	IAI	ΓIC	<u>NC</u>				
0-5	SPARE							
6	LOGIC	1	=	SDU	ALAF	MS		
7	LOGIC	1	=	SDU	VAR	0	BAD	
8	LOGIC	1	=	SDU	VAR	1	BAD	
9	LOGIC	1	=	SDU	VAR	2	BAD	
10	LOGIC	1	=	SDU	VAR	3	BAD	
11	LOGIC	1	=	SDU	VAR	4	BAD	
12	LOGIC	1	=	SDU	VAR	5	BAD	
13	LOGIC	1	=	SDU	VAR	6	BAD	
14	LOGIC	1	=	SDU	VAR	7	BAD	
15	SPARE							

FOR NAVY SHIPBOARD:

For the Navy Shipboard unique values of this word, see Appendix VIII.

40.5.8.15 <u>Degraded Performance Word</u>. (Block 8, Word 17)

	MSB														I	SB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 17									I C I N	L 1 7 O	H C P	Г 1	L P A O	V S W R	V S W R	

BIT	DESIGNATION
0	NOT USED
1	LOGIC 1 = VSWR ANT A FAIL (VSWR)
2	LOGIC 1 = VSWR ANT B FAIL (VSWR)
3	LOGIC 1 = LOW PA OVERTEMPERATURE (LPAO)
4-5	POWER OUTPUT ANT B PERFORMANCE (POANTB)
	BITS 5 • 4
	0 • 0 PERFORMANCE NOT DEGRADED 0 • 1 POWER OUTPUT < 3dB DOWN 1 • 0 NOT USED 1 • 1 NOT USED
6-7	POWER OUTPUT ANT A PERFORMANCE (POANTA)
	BITS 7 • 6
	0 • 0 PERFORMANCE NOT DEGRADED 0 • 1 POWER OUTPUT < 3dB DOWN 1 • 0 NOT USED 1 • 1 NOT USED
8-15	SPARE

NOTE: IF HPA PRESENT BIT (SEE INITIALIZATION BLOCK 1, WORD 3, BIT 7), IS SET TO "HPA PRESENT", THEN THIS WORD INDICATES HPA DEGRADED

PERFORMANCE. IF HPA PRESENT BIT IS NOT SET, THEN IT INDICATES

R/T DEGRADED PERFORMANCE.

FOR NAVY SHIPBOARD:

For the Navy Shipboard unique values of this word, see Appendix VIII.

FOR NAVY AIRBORNE:

For the Navy Airborne unique values of this word, see Appendix VIII.

FOR E-3:

For the E-3 unique Ongoing Status Word 1, see Appendix X.

40.5.8.16 <u>IPF Fail Summary Word R/T-HPA</u>. (Block 8, Word 18)

	MSB														L	SB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 18									TSDHPF			Ū	R E F	P W F	ች O2 ች	P L F

The bit designation shall be as follows:

BIT	DESIGNATION
0	LOGIC 1 = IPF POWER LIMIT FAILURE (PLF)
1	LOGIC 1 = IPF FREQUENCY SPECTRUM FAILURE (FSF)
2	LOGIC 1 = IPF PULSE WIDTH FAILURE (PWF)
3	LOGIC 1 = IPF RADIATED ENERGY FAILURE (REF)
4	LOGIC 1 = IPF UTILIZATION FAILURE (U)
5-6	SPARE
7	LOGIC 1 = TRANSMISSION SHUTDOWN DUE TO IPF FAILURE (TSDIPF) [HARDWARE IPF, HPA OR R/T, OR TRANSMIT DUTY FACTOR LIMIT EXCEEDED]
8-15	SPARE

40.5.8.17 <u>Start-Up/Interrupt Word</u>. (Block 8, Word 19)

	MSB]	LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 19						S	TART	-UP/	INTE	RRUP	T					

The bit designation shall be as follows:

BIT	DESIGNATION
0-15	$AAAA_{16} = OPERATIONAL MODE OR TRANSITION FROM RECOVERABLE POWER INTERRUPT$
	RANDOM BITS = COLD START UP

40.5.8.18 NICP/SICP Degraded Operation Word. (Block 8, Word 20)

	MSB														I	SB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 20	S Q N S	D V Z S	O V S	N O B S	T O S	N I C E X C					SICEXC	S Q N N	D V Z N	O V N	N O B N	T O N

The bit designation shall be as follows:

<u>BIT</u>	DESIGNATION
0	LOGIC 1 = NICP TIME OVERLOAD (TON)
1	LOGIC 1 = NO NICP INTERNAL BUFFERS (NOBN)
2	LOGIC 1 = NICP FLOATING POINT OVERFLOW (OVN)
3	LOGIC 1 = NICP DIVIDE BY ZERO (DVZN)
4	LOGIC 1 = NICP NEGATIVE SQUARE ROOT (SQNN)
5	LOGIC 1 = NICP CPU EXCEPTION (NCEXC) (THIS BIT IS NOT USED FOR NAVY SHIPBOARD AND NAVY AIRBORNE)
6-9	NOT USED
10	LOGIC 1 = SICP CPU EXCEPTION (SICEXC) (THIS BIT IS NOT USED FOR NAVY SHIPBOARD AND NAVY AIRBORNE)
11	LOGIC 1 = SICP TIME OVERLOAD (TOS)
12	LOGIC 1 = NO SICP INTERNAL BUFFERS (NOBS)
13	LOGIC 1 = SICP FLOATING POINT OVERFLOW (OVS)
14	LOGIC 1 = SICP DIVIDE BY ZERO (DVZS)
15	LOGIC 1 = SICP NEGATIVE SQUARE ROOT (SQNS)
FOR E-3:	

For the E-3 unique Ongoing Status Word 1, see Appendix X.

40.5.8.19 Terminal Fail HPAG Word 11. (Block 8, Word 21) NAVY SHIPBOARD AND NAVY AIRBORNE ONLY

	MSE	3														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 21	H I S S	H I S L	H P A S		T R T T		P A O T F	T S D I P F	P O A N T A	P O A N T B		I F F	0 0 B F F	1 0 3 0 M F	P W F	

The bit designation shall be as follows:

BIT	DESIGNATION
0	SPARE
1	LOGIC 1 = PULSE WIDTH FAIL (PWF)
2	LOGIC 1 = $1030/1090$ MONITOR FAIL (1030MF)
3	LOGIC 1 = OUT-OF-BOUNDS FREQUENCY FAIL (OOBFF)
4	LOGIC 1 = IFF FREQUENCY COUNTER FAIL (IFFF)
5	SPARE
6	LOGIC 1 = Po ANT B > +1 dB or < -3 dB (POANTB)
7	LOGIC 1 = Po ANT A > +1 dB or < -3 dB (POANTA)
8	LOGIC 1 = TRANSMISSION SHUTDOWN DUE TO IPF FAIL (TSDIPF)
9	LOGIC 1 = PA OVER HIGH THRESHOLD TEMPERATURE (PAOTF)
10	SPARE
11	LOGIC 1 = TEST RTT LOOPBACK FAILURE (TRTT)
12	SPARE
13	LOGIC 1 = HPA SRA FAIL (HPAS)
14	LOGIC 1 = LONG TERM HISTOGRAM FAIL (HISL)
15 FOR E-3:	LOGIC 1 = SHORT TERM HISTOGRAM FAIL (HISS)
	-3 unique Ongoing Status Word 1, see Appendix X.

40.5.9	Greenw	ich M	ean '	Time.	(B	lock	9)								
	15 14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CONTROL W	ORD (SE	E 40.	5.1.1)											
wd 2	ADDRESS W	ORD (SE	E 40.	5.1.2)											
wd 3	GMT WORD	1													
wd 4	GMT WORD	2													
wd 5	NOT USED														
wd 6	NOT USED														
wd 7	NOT USED														
wd 8	NOT USED														
wd 9	NOT USED														
wd 10	NOT USED														
wd 11	NOT USED														
wd 12	NOT USED														
wd 13	NOT USED														
wd 14	NOT USED														
wd 15	NOT USED														
wd 16	NOT USED														
wd 17	NOT USED														
wd 18	NOT USED														
wd 19	NOT USED														
wd 20	NOT USED														
wd 21	NOT USED														
wd 22	NOT USED														
wd 23	NOT USED														
wd 24	NOT USED														
wd 25	NOT USED														
wd 26	NOT USED														
wd 27	NOT USED														
wd 28	NOT USED														
wd 29	NOT USED														
wd 30	NOT USED														
wd 31	NOT USED														
wd 32	NOT USED														

40.5.9.1 <u>GMT Word 1</u>. (Block 9, Word 3)

	MSB														I	JSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 3	O V I		0 S	M S B		SE	С		L S B	M S B		S	SLOT			L S B

The bit designation shall be as follows:

BIT	DESIGNATION
0-6	CHRONOMETER SLOTS (SLOT) 0 - 127
7-12	CHRONOMETER SECONDS (SEC) 0 - 59 NUMBER OF SECONDS 60 - 63 SPARE
13	OSCILLATOR SELECT (OSI) LOGIC 1 = 10 Mhz OSC FROM REFERENCE TIME BASE (RTB) SELECTED LOGIC 0 = 16 Khz OSC FROM CHRONOMETER SELECTED
14	NOT USED
15	OVERFLOW INDICATOR (OVI) - THIS INDICATOR IS SET AFTER THE 32nd DAY. LOGIC 1 = OVERFLOW

NOTE: GMT WORD 1 AND WORD 2 CONTAIN THE JTIDS TIME OF DAY.

40.5.9.2 <u>GMT Word 2</u>. (Block 9, Word 4)

	MSB														I	SB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 4	DAY							HR					MI	IN .		

BIT	<u>DESIGNATION</u>
0-5	CHRONOMETER MINUTES (MIN) NUMBER OF MINUTES (0-59)
6-10	CHRONOMETER HOURS (HR) NUMBER OF HOURS (0-23)
11-15	CHRONOMETER DAYS (DAY) NUMBER OF DAYS (0-31)

40.5.10) <u>NE</u>	G Ma	pping	g Sta	<u>atus</u> .	(E	lock	s 10	and	11)						
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CONT	ROL WO	RD (SE	E 40.	5.1.1)											
wd 2	ADDR	ADDRESS WORD (SEE 40.5.1.2)														
wd 3	NPG	PG MAPPING STATUS WORD 1														
wd 4	NPG :	MAPPIN	G STAT	US WO	RD 2											
wd 5	NPG :	MAPPIN	G STAT	US WO	RD 3											
wd 6	NPG :	MAPPIN	G STAT	US WO	RD 4											
wd 7	NPG :	MAPPIN	G STAT	US WO	RD 5											
wd 8	NPG :	MAPPIN	G STAT	US WO	RD 6											
wd 9	NPG :	MAPPIN	G STAT	US WO	RD 7											
wd 10	NPG	MAPPIN	G STAT	US WO	RD 8											
wd 11	NPG :	MAPPIN	G STAT	US WO	RD 9											
wd 12	NPG :	MAPPIN	G STAT	US WO	RD 10											
wd 13	NPG :	MAPPIN	G STAT	US WO	RD 11											
wd 14	NPG	MAPPIN	G STAT	US WO	RD 12											
wd 15	NPG	MAPPIN	G STAT	US WO	RD 13											
wd 16	NPG	MAPPIN	G STAT	US WO	RD 14											
wd 17	NPG	MAPPIN	G STAT	US WO	RD 15											
wd 18	NPG	MAPPIN	G STAT	US WO	RD 16											
wd 19	NPG	MAPPIN	G STAT	US WO	RD 17											
wd 20	NPG	MAPPIN	G STAT	US WO	RD 18											
wd 21	NPG	MAPPIN	G STAT	US WO	RD 19											
wd 22	NPG	MAPPIN	G STAT	US WO	RD 20											
wd 23	NPG	MAPPIN	G STAT	US WO	RD 21											
wd 24	NPG	MAPPIN	G STAT	US WO	RD 22											
wd 25	NPG	MAPPIN	G STAT	US WO	RD 23											
wd 26	NPG	MAPPIN	G STAT	US WO	RD 24											
wd 27	NPG	MAPPIN	G STAT	US WO	RD 25											
wd 28	NPG	MAPPIN	G STAT	US WO	RD 26											
wd 29	NPG	MAPPIN	G STAT	US WO	RD 27											
wd 30	NPG	MAPPIN	G STAT	US WO	RD 28											
wd 31	NPG	MAPPIN	G STAT	US WO	RD 29											
wd 32	NPG	MAPPIN	G STAT	US WO	RD 30											

STATUS BLOCK 10-11

40.5.10) <u>NP</u>	G Ma	pping	ı St	<u>atus</u> .	(E	lock	s 10	and	11)	(co	ntin	ued)			
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CONT	ROL WO	RD (SE	₹ 40.	5.1.1)											
wd 2	ADDRI	ESS WO	RD (SE	€ 40.	5.1.2)											
wd 3	NPG I	MAPPIN	G STATI	JS WO	RD 31											
wd 4	NPG 1	MAPPIN	G STAT	JS WO	RD 32											
wd 5	NOT U	JSED														
wd 6	NOT U	JSED														
wd 7	NOT U	JSED														
wd 8	NOT U	JSED														
wd 9	NOT U	JSED														
wd 10	NOT U	JSED														
wd 11	NOT U	JSED														
wd 12	NOT U	JSED														
wd 13	NOT U	JSED														
wd 14	NOT U	JSED														
wd 15	NOT U	JSED														
wd 16	NOT U	JSED														
wd 17	NOT U	JSED														
wd 18	NOT U	JSED														
wd 19	NOT U	JSED														
wd 20	NOT U	JSED														
wd 21	NOT U	JSED														
wd 22	NOT U	JSED														
wd 23	NOT U	JSED														
wd 24	NOT U	JSED														
wd 25	NOT U	JSED														
wd 26	NOT U	JSED														
wd 27	NOT U	JSED														
wd 28	NOT U	JSED														
wd 29	NOT U	JSED														
wd 30	NOT U	JSED														
wd 31	NOT U	JSED														
wd 32	NOT U	JSED														

STATUS BLOCK 10-11

40.5.10.1 NPG Mapping Status Words. (Block 10, Words 3-32 and Block 11, Words 3,4)

MSE	3														LSB
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
A / I				EXT	'ERNA	L NP(3 NUM	BER					TUMBE SSIG1		

The bit designation shall be as follows:

DESIGNATION

BIT

0-4	NUMBER OF TRANSMIT ASSIGNMENTS IN SLOT ASSIGNMENT TABLE CORRESPONDING TO GIVEN NPG (NUMBER ASSIGNS). RANGE: 0 - 31.
5-13	EXTERNAL NPG NUMBER RANGE: 1-511.
14	NOT USED BY NAVY
15	ACTIVE/INACTIVE ENTRY INDICATION (A/I) LOGIC 1 = ACTIVE ENTRY LOGIC 0 = INACTIVE ENTRY

NOTE: THE INTERNAL NPG #(0-31) IS DEFINED IMPLICITLY IN THESE WORDS AS FOLLOWS:

- -WORD X OF STATUS BLOCK 10 CORRESPONDS TO INTERNAL NPG #(X-3)
- -WORD X OF STATUS BLOCK 11 CORRESPONDS TO INTERNAL NPG #(X+27)

THE "INTERNAL" NPG NUMBER IS THE RESULT OF THE NICP'S MAPPING OF (AT MOST 32) EXTERNAL NPG NUMBERS INTO THE NUMBERS 0 - 31.

THE TERMINAL RESERVES WORD 3 OF BLOCK 10 AND WORDS 3&4
OF BLOCK 11 TO REPORT THE STATUS OF THE EXTERNAL NPGS 1,
30, AND 31, RESPECTIVELY. THERE ARE NO SUCH
RESTRICTIONS ON WORDS 4-32 IN BLOCK 10.

40.5.11 <u>Block 12</u>. Not used.

40.5.12 <u>Block 13</u>. Not used.

40.5.13 TACAN Status (Block 14). NAVY AIRBORNE AND F-15 ONLY. 15 14 13 12 11 10 9 5 4 0 wd 1 CONTROL WORD (SEE 40.5.1.1) wd 2 ADDRESS WORD (SEE 40.5.1.2) wd 3 TACAN RANGE wd 4 TACAN BEARING wd 5 TACAN MODE/CHANNEL wd 6 TACAN FUNCTION STATUS wd 7 TACAN BEARING (BAM) wd 8 TACAN ODOMETER UNITS wd 9 TACAN ODOMETER TENS wd 10 TACAN ODOMETER HUNDREDS

wd 11

wd 12

wd 13

wd 14

wd 15

wd 16

wd 17

wd 18

wd 19

wd 20 wd 21

wd 22

wd 23 wd 24

wd 25

wd 26

wd 27

wd 28

wd 29

wd 30

wd 31

wd 32

NOT USED

TACAN RANGE RATE

TACAN BEARING RATE

TACAN BIT SUMMARY WORD

TACAN BEARING SIN (θ + 60 DEGREES)

TACAN BEARING SIN (θ - 60 DEGREES)

40.5.13.1 TACAN Range (Binary) Word. (Block 14, Word 3)

NAVY AIRBORNE AND F-15 ONLY

	MSB														I	JSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 3						RA	NGE	(BII	JARY))						R I V

The bit designation shall be as follows:

BIT	<u>DESIGNATION</u>
0	RANGE WORD INVALID BIT (RIV) LOGIC 1 = RANGE WORD INVALID

1-15 TACAN RANGE LSB: 0.0125 NM

MSB: 204.8 NM

40.5.13.2 TACAN Bearing (Binary) Word. (Block 14, Word 4)

NAVY AIRBORNE AND F-15 ONLY

	MSB														I	_i SB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 4					E	BEARI	NG (BINA	ARY)						A N T	B I V

The bit designation shall be as follows:

DESIGNATION

BIT

0	BEARING WORD INVALID BIT (BIV) LOGIC 1 = BEARING WORD INVALID
1	TACAN ANTENNA SELECT (ANT) LOGIC 1 = ANTENNA A LOGIC 0 = ANTENNA B
2-15	TACAN BEARING LSB: 0.03125 degrees MSB: 256 degrees RANGE: 0 TO 359.96875 degrees

40.5.13.3 TACAN Mode/Channel Word. (Block 14, Word 5)

NAVY AIRBORNE AND F-15 ONLY

	MSE	3														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 5	R	В			CHANNEL											
	V	V	A	A R T X				TENS - HUN UNITS								CI
			/ A	E C	/ R	/ Y	8	4	2	1	8	4	2	1		V
							Ü	Ü	U	Ü						

BIT	DESIGNATION
0	MODE/CHANNEL WORD INVALID BIT (MCIV) LOGIC 1 = MODE/CHANNEL WORD INVALID
1	NOT USED
2-9	TACAN CHANNEL NUMBER 0 = NO STATEMENT 1-126 = ASSIGNED CHANNEL
10	X/Y MODE $(X/Y)LOGIC 1 = Y MODELOGIC 0 = X MODE$
11-12	TRANSMIT/RECEIVE MODE
	BIT 12 • 11 O • O NOT USED O • 1 TRANSMIT/RECEIVE (T/R) MODE 1 • O RECEIVE MODE 1 • 1 NOT USED
13	A/A MODE (A/A) LOGIC 1 = AIR-TO-AIR MODE
14	BEARING VALID (BV) LOGIC 1 = BEARING VALID (SEE WORD 4, BIT 0)
15	RANGE VALID (RV) LOGIC 1 =RANGE VALID (SEE WORD 3, BIT 0)

40.5.13.4 TACAN Function Status Word. (Block 14, Word 6)

NAVY AIRBORNE AND F-15 ONLY

_		MSB														I	ıSB
		15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
	wd 6						AG	C	DI	ΊE	BEARING						
				S							S	M	S	1	1	М	
				/				/	E	/	5	3	E				
				Т		(BINARY)							М	Т		5	M

BIT	<u>DESIGNATION</u>
0	BEARING IN MEMORY (MEM) LOGIC 1 = BEARING IN MEMORY
1	LOGIC 1 = BEARING 135 Hz MOD PRESENT
2	LOGIC 1 = BEARING 15 Hz MOD PRESENT
3	BEARING SEARCH/TRACK (S/T) LOGIC 1 = BEARING IN SEARCH LOGIC 0 = BEARING IN TRACK
4	DME IN MEMORY (MEM) LOGIC 1 = DME IN MEMORY
5	DME SEARCH/TRACK (S/T) LOGIC 1 = DME IN SEARCH LOGIC 0 = DME IN TRACK
6-12	AGC (BINARY) LSB: 10 V/128
13	AGC SEARCH/TRACK LOGIC 1 = AGC IN SEARCH LOGIC 0 = AGC IN TRACK
14-15	NOT USED

40.5.13.5 TACAN Bearing (BAM) Word. (Block 14, Word 7)

NAVY AIRBORNE AND F-15 ONLY

	MSE	MSB												LSB			
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	
wd 7					В	EARII	NG (I	BAM)							A N T	B I V	

The bit designation shall be as follows:

BIT	DESIGNATION
0	BEARING WORD INVALID BIT (BIV) LOGIC 1 = BEARING WORD INVALID
1	TACAN ANTENNA SELECT (ANT) LOGIC 1 = ANTENNA A LOGIC 0 = ANTENNA B
2	NOT USED
3-15	TACAN BEARING IN BAM (SEE TABLE IV-III) LSB: $\pi \times 2^{^{(-12)}}$ radians MSB: $-\pi$ radians

40.5.13.6 TACAN Odometer Units Word. (Block 14, Word 8)

NAVY AIRBORNE AND F-15 ONLY

					<u> </u>		12011	- 1 11	12 -		<u> </u>					
	MSB]	LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 8	SIN (θ + 60 degrees)									SI	и (ө	- 6	0 de	gree	es)	

The bit designation shall be as follows:

DESIGNATION

BIT

· · · · · · · · · · · · · · · · · · ·	
0-7	ODOMETER UNITS-GENEVA $ \begin{array}{ccccccccccccccccccccccccccccccccccc$
8-15	ODOMETER UNITS-GENEVA SIN (θ + 60) IN TWO'S COMPLEMENT LSB: 1/128 MSB: -1

40.5.13.7 TACAN Odometer Tens Word. (Block 14, Word 9)

NAVY AIRBORNE AND F-15 ONLY

	MSB														I	SB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 9		SI	Ν (θ) + 6	0 de	grees	;)			SII	η (θ	- 6	0 de	gree	s)	

The bit designation shall be as follows:

<u>BIT</u> <u>DESIGNATION</u>

0-7 ODOMETER TENS-GENEVA

SIN $(\theta - 60)$ IN TWO'S COMPLEMENT

LSB: 1/128 MSB: -1

8-15 ODOMETER TENS-GENEVA

SIN $(\theta + 60)$ IN TWO'S COMPLEMENT

LSB: 1/128 MSB: -1

40.5.13.8 TACAN Odometer Hundreds Word. (Block 14, Word 10)

NAVY AIRBORNE AND F-15 ONLY

		MSB															LSB
		15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd	10		SI	и (Ө	+ 6	0 de	gree	s)			SI	и (θ	- б	0 de	gree	es)	

The bit designation shall be as follows:

BIT DESIGNATION

0-7 ODOMETER HUNDREDS-GENEVA

SIN $(\theta - 60)$ IN TWO'S COMPLEMENT

LSB: 1/128 MSB: -1

8-15 ODOMETER HUNDREDS-GENEVA

SIN (θ + 60) IN TWO'S COMPLEMENT

LSB: 1/128 MSB: -1 40.5.13.9 TACAN Bearing Sin (θ + 60 degrees) Word. (Block 14, Word 11)

NAVY AIRBORNE AND F-15 ONLY

	MSB														L	SB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 11				BEAR	ING S	SIN (θ +	60 c	degre	ees)						

The bit designation shall be as follows:

<u>BIT</u> <u>DESIGNATION</u>

0-2 NOT USED

3-15 BEARING SIN (θ + 60 degrees) IN TWO'S COMPLEMENT

LSB: 1/4096

MSB: -1

40.5.13.10 TACAN Bearing Sin (θ - 60 degrees) Word. (Block 14, Word 12)

NAVY AIRBORNE AND F-15 ONLY

	MSB]	LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 12]	BEAR	ING	SIN	(θ -	60 (degr	ees)						

The bit designation shall be as follows:

<u>BIT</u> <u>DESIGNATION</u>

0-2 NOT USED

3-15 BEARING SIN (θ - 60 degrees) IN TWO'S COMPLEMENT

LSB: 1/4096

MSB: -1

- 40.5.13.11 <u>TACAN Spare Word</u>. (Block 14, Word 13)
- 40.5.13.12 <u>TACAN Spare Word</u>. (Block 14, Word 14)

40.5.13.13 TACAN Range Rate Word. (Block 14, Word 15)

NAVY AIRBORNE AND F-15 ONLY

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 15	M S B	0					R	ANGE	RAT	'E					L S B	RR

BIT	DESIGNATION
0	RANGE RATE WORD INVALID (RRIV) LOGIC 1 = RANGE RATE WORD INVALID
1-13	13 BITS OF 14-BIT RANGE RATE WORD. IN TWO'S COMPLEMENT. MSB IS LOCATED IN BIT 15. LSB: 1 KNOT RANGE: - 8192 TO + 8191 KNOTS
14	SET TO LOGIC 0
15	MSB OF RANGE RATE (MSB). ONLY LSB'S ARE IN BITS $1-13$ OF THIS WORD.

40.5.13.14 TACAN Bearing Rate Word. (Block 14, Word 16)

NAVY AIRBORNE AND F-15 ONLY

	MSB														I	SB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 16	M S B	0					BE	ARIN	G RA	ΔTE					L S B	B R I V

BIT	DESIGNATION
0	BEARING RATE WORD INVALID (BRIV) - LOGIC 1 = BEARING RATE WORD INVALID
1-13	13 BITS OF 14-BIT BEARING RATE WORD. IN TWO'S COMPLEMENT. MSB IS LOCATED IN BIT 15. LSB: 0.01 degrees/second RANGE: - 81.92 TO + 81.91 degrees/second
14	SET TO LOGIC 0
15	MSB OF BEARING RATE LSB'S ARE IN BIT 1-13 OF THIS WORD.

R207A045C DATE <u>13 NOVEMBER 1997</u>

40.5.13.15 TACAN BIT Summary Word. (Block 14, Word 17)

NAVY AIRBORNE AND F-15 ONLY

	MSB														L	SB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 17	P W R U P	A G C F	REC SENSF	P W R A M P	S Y N T H F	R A M F	R O M F	CPUF							F A I L I N D	S T I N D

The bit designation shall be as follows:

BIT	DESIGNATION
0	SELF TEST INDICATOR (STIND) LOGIC 1 = SELF TEST LOGIC 0 = NORMAL OPERATION
1	FAILURE INDICATOR (FAIL IND) LOGIC 1 = TEST FAILURE LOGIC 0 = GOOD RADIO
2-7	NOT USED
8	LOGIC 1 = CPU FAILURE (CPUF)
9	LOGIC 1 = ROM FAILURE (ROMF)
10	LOGIC 1 = RAM FAILURE (RAMF)
11	LOGIC 1 = SYNTHESIZER FAILURE LOSS OF LOCK (SYNTHF)
12	LOGIC 1 = POWER LEVEL (ENHANCED TACAN) FAILURE (PWR AMP F)
13	LOGIC 1 = RECEIVER SENSITIVITY FAILURE (REC SENSF)
14	LOGIC 1 = AGC FUNCTION FAILURE (AGCF)
15	LOGIC 1 = POWER-UP SELF TEST FAILURE (PWR UP F)

40.5.13.16 <u>TACAN Spare Word</u>. (Block 14, Word 18)

40.5.14	SACP Filter Request. (Block 15)
	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
wd 1	CONTROL WORD (SEE 40.5.1.1)
wd 2	ADDRESS WORD (SEE 40.5.1.2)
wd 3	TADIL J SACP MESSAGE FILTER WORD 1
wd 4	TADIL J SACP MESSAGE FILTER WORD 2
wd 5	TADIL J SACP MESSAGE FILTER WORD 3
wd 6	TADIL J SACP MESSAGE FILTER WORD 4
wd 7	TADIL J SACP MESSAGE FILTER WORD 5
wd 8	TADIL J SACP MESSAGE FILTER WORD 6
wd 9	TADIL J SACP MESSAGE FILTER WORD 7
wd 10	TADIL J SACP MESSAGE FILTER WORD 8
wd 11	TADIL J SACP MESSAGE FILTER WORD 9
wd 12	TADIL J SACP MESSAGE FILTER WORD 10
wd 13	TADIL J SACP MESSAGE FILTER WORD 11
wd 14	TADIL J SACP MESSAGE FILTER WORD 12
wd 15	TADIL J SACP MESSAGE FILTER WORD 13
wd 16	TADIL J SACP MESSAGE FILTER WORD 14
wd 17	TADIL J SACP MESSAGE FILTER WORD 15
wd 18	TADIL J SACP MESSAGE FILTER WORD 16
wd 19	TADIL J SACP PPLI LOOPBACK MSG FILTER WORD
wd 20	IJMS SACP MESSAGE FILTER WORD 1
wd 21	IJMS SACP MESSAGE FILTER WORD 2
wd 22	IJMS SACP MESSAGE FILTER WORD 3
wd 23	IJMS SACP MESSAGE FILTER WORD 4
wd 24	IJMS SACP MESSAGE FILTER WORD 5
wd 25	IJMS SACP MESSAGE FILTER WORD 6
wd 26	IJMS SACP MESSAGE FILTER WORD 7
wd 27	IJMS SACP MESSAGE FILTER WORD 8
wd 28	TADIL J SACP PPLI MESSAGE FILTER STN WORD
wd 29	IJMS SACP MESSAGE FILTER WORD 9
wd 30	IJMS SACP MESSAGE FILTER WORD 10
wd 31	IJMS SACP P LOOPBACK MESSAGE FILTER WORD
wd 32	NOT USED

L	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	U
wd 1	J1.7	J1.6	J1.5	J1.4	J1.3	J1.2	J1.1	J1.0	J0.7	J0.6	J0.5	J0.4	J0.3	J0.2	J0.1	J0.0
wd 2	J3.7	J3.6	J3.5	J3.4	J3.3	J3.2	J3.1	J3.0	J2.7	J2.6	J2.5	J2.4	J2.3	J2.2	J2.1	J2.0
wd 3	J5.7	J5.6	J5.5	J5.4	J5.3	J5.2	J5.1	J5.0	J4.7	J4.6	J4.5	J4.4	J4.3	J4.2	J4.1	J4.0
wd 4	J7.7	J7.6	J7.5	J7.4	J7.3	J7.2	J7.1	J7.0	J6.7	J6.6	J6.5	J6.4	J6.3	J6.2	J6.1	J6.0
wd 5	J9.7	J9.6	J9.5	Ј9.4	J9.3	J9.2	J9.1	Ј9.0	J8.7	J8.6	J8.5	J8.4	J8.3	Ј8.2	J8.1	J8.0
wd 6	J11.7	J11.6	J11.5	J11.4	J11.3	J11.2	J11.1	J11.0	J10.7	J10.6	J10.5	J10.4	J10.3	J10.2	J10.1	J10.0
wd 7	J13.7	J13.6	J13.5	J13.4	J13.3	J13.2	J13.1	J13.0	J12.7	J12.6	J12.5	J12.4	J12.3	J12.2	J12.1	J12.0
wd 8	J15.7	J15.6	J15.5	J15.4	J15.3	J15.2	J15.1	J15.0	Ј14.7	J14.6	J14.5	J14.4	J14.3	Ј14.2	Ј14.1	J14.0
wd 9	J17.7	J17.6	J17.5	J17.4	J17.3	J17.2	J17.1	J17.0	J16.7	J16.6	J16.5	J16.4	J16.3	J16.2	J16.1	J16.0
wd 10	J19.7	J19.6	J19.5	J19.4	J19.3	J19.2	J19.1	J19.0	J18.7	J18.6	J18.5	J18.4	J18.3	J18.2	J18.1	J18.0
wd 11	J21.7	J21.6	J21.5	J21.4	J21.3	J21.2	J21.1	J21.0	J20.7	J20.6	J20.5	J20.4	J20.3	J20.2	J20.1	J20.0
wd 12	J23.7	Ј23.6	J23.5	J23.4	J23.3	J23.2	J23.1	J23.0	J22.7	J22.6	J22.5	J22.4	J22.3	J22.2	J22.1	J22.0
wd 13	J25.7	J25.6	J25.5	J25.4	J25.3	J25.2	J25.1	J25.0	J24.7	Ј24.6	J24.5	J24.4	Ј24.3	J24.2	J24.1	J24.0
wd 14	J27.7	J27.6	J27.5	J27.4	J27.3	J27.2	J27.1	J27.0	J26.7	J26.6	J26.5	J26.4	J26.3	J26.2	J26.1	J26.0
wd 15	J29.7	Ј29.6	J29.5	J29.4	Ј29.3	J29.2	Ј29.1	Ј29.0	J28.7	J28.6	J28.5	J28.4	J28.3	J28.2	J28.1	J28.0
wd 16	J31.7	Ј31.6	J31.5	Ј31.4	Ј31.3	Ј31.2	Ј31.1	J31.0	J30.7	J30.6	J30.5	J30.4	J30.3	J30.2	J30.1	J30.0

LOGIC 0 = PROVIDE MESSAGE

LOGIC 1 = DO NOT PROVIDE MESSAGE

STATUS BLOCK 15

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FOR NAVY SHIPBOARD:

For the Navy Shipboard unique values of the Host Message Filter Words, see Appendix VIII.

FOR NAVY AIRBORNE:

For the Navy Airborne unique values of the Host Message Filter Words, see Appendix VIII.

40.5.14.2 TADIL J SACP PPLI Loopback Message Filter Word. (Block 15, Word 19)

	MSB														I	SB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 19													P			
													Р			
													L			
													I			

BIT	DESIGNATION
0-2	NOT USED
3	LOGIC 0 = PROVIDE ALL PPLI LOOPBACK MESSAGES
4-15	NOT USED

	SUBCATEGORY AND LABEL										G O R Y	E						
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0		
wd 1	7-1						4-1		3-1		2-1						N	0
wd 2	2-11	2-10	1-11		4-3		2-5	2-4	2-3	2-2	2-1		1-1				С	1
wd 3	7-1		6-1									1-2	1-1				I	2
wd 4								3-2	3-1	2-2	2-1		1-1				S	3
wd 5																	В	4
wd 6									3-1								М	5
wd 7																	А	6
wd 8																		7
wd 9																		8
wd 10																		9
wd 11																		10
wd 12																		11
wd 13		7		6		5		4		3		2		1		0	Ŭ	12
wd 14													1-1				V	13
wd 15								4		3				1			Т	14
wd 16						5				3		2		1			Р	15

LOGIC 1 = PROVIDE MESSAGES

LOGIC 0 = DO NOT PROVIDE MESSAGE

STATUS BLOCK 15

FOR NAVY SHIPBOARD:

For the Navy Shipboard unique values of Block 15, Words 20-27,29-30, see Appendix VIII.

FOR NAVY AIRBORNE:

For the Navy Airborne unique values of Block 15, Words 20-27,29-30, see Appendix VIII.

40.5.14.4 TADIL J SACP PPLI Message Filter STN Word. (Block 15, Word 28)

	MSE	3														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 28	S S M					PPL	I ME	SSAG	E F	LLTE	R ST	N				

BIT	DESIGNATION
0-14	SACP MESSAGE FILTER SOURCE TRACK NUMBER CONSISTING OF FIVE OCTAL DIGITS (00000 TO 77777). IF THE STN EQUALS ZERO, THE PPLI FILTER CRITERIA APPLIES TO ALL STNS. IF THE STN DOES NOT EQUAL ZERO, THE PPLI FILTER CRITERIA APPLIES TO THE SPECIFIED STN
15	SCREEN FOR SACP MESSAGES (SSM) LOGIC 1 = PROVIDE MESSAGES TO SACP AS INDICATED BY SACP MESSAGE FILTERS LOGIC 0 = DO NOT PROVIDE MESSAGES TO SACP

40.5.14.5 IJMS SACP P Loopback Message Filter Word. (Block 15, Word 31)

	MSB														I	SB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 31													P			

The bit designation shall be as follows:

0-2 NOT USED

3 LOGIC 1 = PROVIDE ALL P LOOPBACK MESSAGES

4-15 NOT USED

FOR NAVY SHIPBOARD:

For the Navy Shipboard unique values of this word, see Appendix VIII.

FOR NAVY AIRBORNE:

For the Navy Airborne unique values of this word, see Appendix VIII.

40.5.14.6 Status Block 15, Word 32. Not used.

40.5.15	NICP S	Status	s Rej	port	Numb	er 2	2. (Block	16)						
	15 14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CONTROL W	ORD (SE	E 40.	5.1.1)											
wd 2	ADDRESS W	ORD (SE	E 40.	5.1.2)											
wd 3	REL NAV K	ALMAN F	ILTER	STATU	S WORD	2									
wd 4	R/T BIT W	T BIT WORD 1													
wd 5	R/T BIT W	ORD 2													
wd 6	R/T BIT W	ORD 3													
wd 7	R/T BIT W	ORD 4													
wd 8	PTP BIT W	ORD 1													
wd 9	PTP BIT W	ORD 2													
wd 10	CTP BIT W	ORD 1													
wd 11	CTP BIT W	ORD 2													
wd 12	NOT USED														
wd 13	NOT USED														
wd 14	NOT USED														
wd 15	NOT USED														
wd 16	NOT USED														
wd 17	NOT USED														
wd 18	NOT USED														
wd 19	NOT USED														
wd 20	NOT USED														
wd 21	NOT USED														
wd 22	NOT USED														
wd 23	NOT USED														
wd 24	NOT USED														
wd 25	NOT USED														
wd 26	NOT USED														
wd 27	NOT USED														
wd 28	NOT USED														
wd 29	NOT USED														
wd 30	NOT USED														
wd 31	NOT USED														
wd 32	NOT USED														

STATUS BLOCK 16

40.5.15.1 Relative Navigation Kalman Filter Status Word 2. (Block 16, Word 3)

	MSE	3														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 3	R,	/S CI	ID	R / S C		Q_h				P R		N A V		N S V	GEF	G V F

BIT	DESIGNATION									
0	LOGIC 1 = GRID OBSERVATION VALIDITY FAILURE(S) (GVF)									
1	LOGIC 1 = GEODETIC OBSERVATION VALIDITY FAILURE(S) (GEF)									
2	LOGIC 1 = NON-NAV SYNC OBSERVATION VALIDITY (NSV)									
3-5	ORGANIZATIONAL USER TYPE (NAV)									
	BIT 5 • 4 • 3 0 • 0 • 0 NOT USED 0 • 0 • 1 SECONDARY USER 0 • 1 • 0 PRIMARY USER 0 • 1 • 1 NAVIGATION CONTROLLER 1 • 0 • 0 SECONDARY NAVIGATION CONTROLLER THE OTHER VALUES ARE NOT USED									
6	LOGIC 1 = POSITION REFERENCE (PR)									
7	NOT USED									
8-11	TRANSMITTED ALTITUDE QUALITY (Q_h) (SEE TABLE IV-V)									
12	R/S CIRCUMVENT LOGIC 1 = THE R/S IDENTIFIED IN BITS 13-15 IS BEING CIRCUMVENTED LOGIC 0 = NO R/S IS BEING CIRCUMVENTED									

BIT DESIGNATION

13-15 R/S CIRCUMVENT IDENTIFIER (R/S CID)

BIT 15 • 14 • 13

0 • 0 • 0 RECEIVER/SYNTHESIZER 1 0 • 0 • 1 RECEIVER/SYNTHESIZER 2 0 • 1 • 0 RECEIVER/SYNTHESIZER 3 0 • 1 • 1 RECEIVER/SYNTHESIZER 4 1 • 0 • 0 RECEIVER/SYNTHESIZER 5 1 • 0 • 1 RECEIVER/SYNTHESIZER 6 1 • 1 • 0 RECEIVER/SYNTHESIZER 7

1 • 1 • 1 RECEIVER/SYNTHESIZER 8

40.5.15.2 R/T BIT Word 1. (Block 16, Word 4)

The definition of this word is contained in 10.1.1.2.1.6, address location 0069_{16} .

NOTE: FOR NAVY SHIPBOARD AND NAVY AIRBORNE, THESE BITS ARE RESERVED FOR INTERNAL USE.

40.5.15.3 R/T BIT Word 2. (Block 16, Word 5)

The definition of this word is contained in 10.1.1.2.1.6, address location $006A_{16}$.

NOTE: FOR NAVY SHIPBOARD AND NAVY AIRBORNE, THESE BITS ARE RESERVED FOR INTERNAL USE.

40.5.15.4 R/T BIT Word 3. (Block 16, Word 6)

The definition of this word is contained in 10.1.1.2.1.6, address location $006B_{16}$.

NOTE: FOR NAVY SHIPBOARD AND NAVY AIRBORNE, THESE BITS ARE RESERVED FOR INTERNAL USE.

40.5.15.5 R/T BIT Word 4. (Block 16, Word 7)

The definition of this word is contained in 10.1.1.2.1.6, address location $006C_{16}$.

NOTE: FOR NAVY SHIPBOARD AND NAVY AIRBORNE, THESE BITS ARE RESERVED FOR INTERNAL USE.

40.5.15.6 PTP BIT Word 1. (Block 16, Word 8)

The definition of this word is contained in 10.1.1.2.1.7, address location $006D_{16}$.

NOTE: FOR NAVY SHIPBOARD AND NAVY AIRBORNE, THESE BITS ARE RESERVED FOR INTERNAL USE.

40.5.15.7 PTP BIT Word 2. (Block 16, Word 9)

The definition of this word is contained in 10.1.1.2.1.7, address location $006E_{16}$.

NOTE: FOR NAVY SHIPBOARD AND NAVY AIRBORNE, THESE BITS ARE RESERVED FOR INTERNAL USE.

40.5.15.8 CTP BIT Word 1. (Block 16, Word 10)

The definition of this word is contained in 10.1.1.2.1.8, address location $006F_{16}$.

NOTE: FOR NAVY SHIPBOARD AND NAVY AIRBORNE, THESE BITS ARE RESERVED FOR INTERNAL USE.

40.5.15.9 CTP BIT Word 2. (Block 16, Word 11)

The definition of this word is contained in 10.1.1.2.1.8, address location 0070_{16} .

NOTE: FOR NAVY SHIPBOARD AND NAVY AIRBORNE, THESE BITS ARE RESERVED FOR INTERNAL USE.

40.5.16 IJMS 12-SECOND Message Status Words and IJMS Processing Status (Block 17, Words 3 through 24) Counters. 7 15 10 9 8 6 5 3 2 0 14 13 12 11 4 wd 1 CONTROL WORD (SEE 40.5.1.1) wd 2 ADDRESS WORD (SEE 40.5.1.2) wd 3 NO. OF SUCCESSFUL IJMS TRANS RCVD DURING LAST REPORT INTERVALH wd 4 NOT USED wd 5 NOT USED wd 6 NO. OF IJMS TRANSMISSIONS RECEIVED IN ERROR wd 7 NO. OF IJMS MESSAGES NOT ACKNOWLEDGED NO. OF IJMS LOOPBACK DECODE FAILS wd 8 wd 9 NOT USED wd 10 NO. OF IJMS LOOPBACK FAILURES (NO LOOPBACKS) wd 11 NO. OF IJMS SUCCESSFUL LOOPBACKS wd 12 NO. OF IJMS TEST MESSAGE BIT-BY-BIT COMPARE FAILURES wd 13 NO. OF SUCCESSFULLY RECEIVED IJMS TEST MESSAGES I/J BUFFER FULL COUNT (SICP) RESERVED FOR SICP TESTI wd 14 wd 15 $\ensuremath{\mathsf{J}}\xspace/\ensuremath{\mathsf{I}}$ BUFFER FULL COUNT (SICP) RESERVED FOR SICP TEST $\ensuremath{\mathsf{I}}$ wd 16 NPG-I/J SELECT CONFLICT COUNT (SICP) RESERVED FOR SICP TESTI $\ensuremath{\mathsf{J}}\xspace/\ensuremath{\mathsf{I}}$ NOT TRANSLATABLE COUNT (SICP) RESERVED FOR SICP TESTI wd 17 wd 18 NO. OF IJMS MSGS BUFFERED FOR MTRANS (SICP) RESERVED FOR SICP TESTI NO. OF IJMS MSGS PROCESSED BY MTRANS (SICP) RESERVED FOR SICP TESTI wd 19 wd 20 NO. OF TADIL J MSG GROUPS BUFFERED FOR MTRANS (SICP) RESERVED FOR SICP TESTI NO. OF TADIL J MSG GROUPS PROCESSED BY MTRANS (SICP) RESERVED FOR SICP TESTI wd 21 wd 22 NO. OF MSGS REJECTED FOR NPG BUSY (SICP) RESERVED FOR SICP TESTI wd 23 NO. OF I/J ABORTED TRANSLATIONS (SICP) RESERVED FOR SICP TESTI wd 24 NO. OF J/I ABORTED TRANSLATIONS (SICP) RESERVED FOR SICP TESTI wd 25 NOT USED wd 26 NOT USED wd 27 NOT USED NOT USED wd 28 wd 29 NOT USED wd 30 NOT USED wd 31 NOT USED wd 32 NOT USED

WORD 3, BITS 0-10:	NUMBER OF SUCCESSFUL IJMS TRANSMISSIONS RECEIVED DURING LAST REPORTING INTERVAL (DOES NOT INCLUDE RTT'S)
WORD 4, BITS 0-10:	NOT USED
WORD 5, BITS 0-10:	NOT USED
WORD 6, BITS 0-10:	NUMBER OF IJMS TRANSMISSIONS RECEIVED IN ERROR
WORD 7, BITS 0-10:	NUMBER OF IJMS MESSAGES NOT ACKNOWLEDGED
WORD 8, BITS 0-10:	NUMBER OF IJMS LOOPBACK DECODE FAILS
WORD 9, BITS 0-10:	NOT USED
WORD 10, BITS 0-10:	NUMBER OF IJMS LOOPBACK FAILURES (NO LOOPBACKS)
WORD 11, BITS 0-10:	NUMBER OF IJMS SUCCESSFUL LOOPBACKS
WORD 12, BITS 0-10:	NUMBER OF IJMS TEST MESSAGE BIT-BY-BIT COMPARE FAILURES
WORD 13, BITS 0-10:	NUMBER OF SUCCESSFULLY RECEIVED IJMS TEST MESSAGES
WORD 14, BITS 0-10:	I/J BUFFER FULL COUNT (SICP)
WORD 15, BITS 0-10:	J/I BUFFER FULL COUNT (SICP)
WORD 16, BITS 0-10:	NPG-I/J SELECT CONFLICT COUNT (SICP)
WORD 17, BITS 0-10:	J/I NOT TRANSLATABLE COUNT (SICP)
WORD 18, BITS 0-10:	NUMBER OF IJMS MESSAGES BUFFERED FOR MTRANS (SICP)
WORD 19, BITS 0-10:	NUMBER OF IJMS MESSAGES PROCESSED BY MTRANS (SICP)
WORD 20, BITS 0-10:	NUMBER OF TADIL J MESSAGE GROUPS BUFFERED FOR MTRANS (SICP)
WORD 21, BITS 0-10:	NUMBER OF TADIL J MESSAGE GROUPS PROCESSED BY MTRANS (SICP)

STATUS BLOCK 17

WORD 22, BITS 0-10: NUMBER OF MESSAGES REJECTED FOR NPG BUSY (SICP)

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WORD 23, BITS 0-10: NUMBER OF I/J ABORTED TRANSLATIONS (SICP)

WORD 24, BITS 0-10: NUMBER OF J/I ABORTED TRANSLATIONS (SICP)

NOTE: RANGE = 0-1536. BITS 11-15 OF EACH WORD ARE SET TO ZERO.

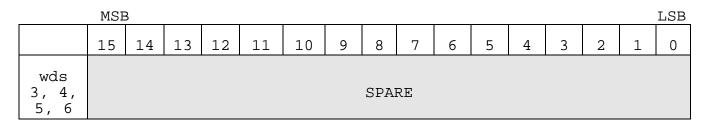
NOTE: BLOCK IS NOT APPLICABLE TO NAVY TERMINALS.

STATUS BLOCK 17

40.5.17 <u>E-3 Status (Block 18)</u>.

10.5.17	E-3 Status (BIOCK 10).
	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
wd 1	
wd 2	
wd 3	
wd 4	
wd 5	
wd 6	
wd 7	NUMBER OF RR WRAP TEST FAILS
wd 8	NUMBER OF RR SERIAL LINE FAILS
wd 9	NUMBER OF RR INPUT SERIAL LINE PARITY FAILS
wd 10	NUMBER OF RR OUTPUT SERIAL LINE PARITY FAILS
wd 11	NUMBER OF RR TAPE PARITY ERRORS
wd 12	NUMBER OF RR INCOMPLETE OPERATIONS
wd 13	NUMBER OF RR ILLEGAL COMMANDS
wd 14	NUMBER OF RR UNABLE TO COMPLY
wd 15	NUMBER OF CPS COMMAND BUFFERS WITH PARITY ERROR (NOT INTERNAL WRAP)
wd 16	NUMBER OF PARTIAL CPS COMMAND BUFFERS (NOT INTERNAL WRAP)
wd 17	NUMBER OF CPS COMMAND TIMEOUTS (NOT INTERNAL WRAP)
wd 18	NUMBER OF CPS COMMAND INTERNAL WRAP FAILS
wd 19	NUMBER OF CPS INCOMPLETE MULTI-BLOCK TRANSFERS
wd 20	NUMBER OF CPS REPORT BUFFERS WITH PARITY ERROR (NOT INTERNAL WRAP)
wd 21	NUMBER OF CPS REPORT TIMEOUTS (NOT INTERNAL WRAP)
wd 22	NUMBER OF CPS REPORT INTERNAL WRAP FAILS
wd 23	RR STATUS WORD (FROM RR)
wd 24	RR OPERATION STATUS WORD
wd 25	I/O DEGRADED STATUS WORD
wd 26	I/O FAIL STATUS WORD 1
wd 27	I/O FAIL STATUS WORD 2
wd 28	NUMBER OF WRITE OPERATION STATUS WORDS
wd 29	NUMBER OF CMS MUX STATUS ERRORS
wd 30	NUMBER OF NCS MUX STATUS ERRORS
wd 31	
wd 32	

WORDS 3-6



The bit designation shall be as follows:

BIT DESIGNATION

0-15 SPARE

WORDS 7-22

	MSB														I	JSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wds 7-22				S	TATUS	S COU	NTS	OF :	INDI	CATE	D EV	ENTS	3			

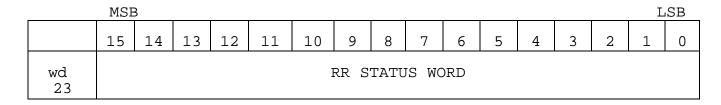
The bit designation shall be as follows:

BIT DESIGNATION

0-15 STATUS COUNTS OF INDICATED EVENTS

RANGE: 0 - 65535

WORD 23



The bit designation shall be as follows:

BIT DESIGNATION

0-15 RR STATUS WORD

16 LSB OF RR STATUS WORD (SEE FIGURE X-VIII) LATEST COPY

OF EITHER 1E1B2 OR 1E1B3 (SEE 100.1.1.6.2.4.2).

RR OPERATION STATUS WORDH

	MSE	3														LSB	
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	
wd 24			N W E	O F F L	E O T	N R D Y	R D Y	R P A U	R O N	H O K	H F	R N G		P N G	H N V	H A	

The bit designation shall be as follows:

BIT	<u>DESIGNATION</u>
0	RR DID NOT WRITE HEADER BECAUSE OF SERIAL LINE PARITY FAIL OR RR NOT READY OR NOT BEGINNING OF TAPE (HA-HEADER ABORT) (RECORDING CANNOT BE STARTED).
1	HEADER DATA NOT VALID (HNV) AND COMMAND IS WRITE HEADER.
2	RR NOT STARTED AND COMMAND IS PAUSE (PNG-PAUSE NO GOOD)
3	NOT USED
4	RR NOT PAUSED AND COMMAND IS PAUSE OFF (RNG-RESUME RECORDING NO GOOD)
5	RR ERROR ON WRITING HEADER (HF-HEADER FAIL)
6	HEADER WRITTEN WITHOUT ERROR (INDICATION HELD FOR 1 SECOND) (HOK-HEADER OK)
7	RECORDING ON (RON)
8	RECORDING PAUSED (RPAU)
9	RR READY TO WRITE HEADER (RDY)
10	RR NOT READY TO WRITE HEADER (NRDY)
11	RR AT END OF TAPE (EOT)
12	RR OFF LINE (OFFL)
13	RR NOT WRITE ENABLED (NWE)
14-15	NOT USED

 ${\rm H}$ ONLY ONE BIT SET AT ANY TIME IN BITS 0-5 AND BITS IN 6-13. SET TO ZERO IF RECORDING PORT IS TSRD.

WORD 23 I/O DEGRADED

	MSE	3													I	SB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 25					R R M O	N C G G E	CMSSE	N C い い B	C M ss ss B	C P S M B F	R R N G	R R U T C	R R I L	R R I N C	R R T P E	

BIT	DESIGNATION
0	SPARE
1	RR TAPE PARITY ERROR (RRTPE)
2	RR INCOMPLETE OPERATION (RRINC)
3	RR ILLEGAL COMMAND (RRILL)
4	RR UNABLE TO COMPLY (RRUTC)
5	RR ERROR ON WRITING HEADER (RRNG-RR NO GOOD) COPY OF BIT 0 WORD $24.$
6	CPS MULTI-BLOCK TRANSFER FAIL (CPSMBF)
7	CMS MUX - SWITCH BUS DUE TO ERROR (CMSSB)
8	NCS MUX - SWITCH BUS DUE TO ERROR (NCSSB)
9	CMS MUX - STATUS ERROR
10	NCS MUX - STATUS ERROR
11	RR MOTION (RRMO)
12-15	NOT USED

I/O FAIL STATUS WORD 1

	MSE	3														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 26	N C S C T F	C M S C T F	R D A F	R N O T E	R R O M	R R A M	R O P E	R I P E	R L F	R W F						

BIT	DESIGNATION
0-5	SPARE
6	RR WRAPAROUND FAIL (RWF)
7	RR SERIAL LINE FAIL (RLF)
8	RR INPUT PARITY ERROR (RIPE)
9	RR OUTPUT PARITY ERROR (ROPE)
10	RR RAM FAIL (& SERIAL LINE CONTROLLER ROM) FAIL (RRAM)
11	RR ROM CHECKSUM FAIL (RROM)
12	RR RECORDING INPUT BUFFERS NOT EMPTIED (RNOTE)
13	RR FAILURE TO CLEAR DA IN COMMAND WORD (RDAF)
14	CMS MUX - FAILURE TO COMPLETE COMMAND TABLE DURING BUS CONTROL MODE (CMSCTF)
15	NCS MUX - FAILURE (NCSCTF)

I/O FAIL STATUS WORD 2

	MSE	3														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 27	C M S N D	C M S N D R		N C S N D R	CPSRND	C P S R D	CPSRRF	CPSRTO	СРИНЖЕ	CPSRPE	O P W C N D	CPSCD	CPSCRF	CPSCTO	СРЅСРВ	CPSCPE

The bit designation shall be as follows:

BIT	<u>DESIGNATION</u>
0	CPS COMMAND PORT PARITY ERROR (NOT INTERNAL WRAP) (CPSCPE)
1	CPS COMMAND PORT PARTIAL BUFFER (NOT INTERNAL WRAP) (CPSCPB)
2	CPS COMMAND PORT TIMEOUT (NOT INTERNAL WRAP) (CPSCTO)
3	CPS COMMAND PORT ROM CHECKSUM FAIL (CPSCRF)
4	CPS COMMAND PORT DID NOT USE BIT/STATUS WORD (CPSCD -CPS COMMAND PORT DEAD).
5	CPS COMMAND PORT NO DATA RECEIVED FOR 12 SECONDS (CPSCND)
6	CPS REPORT PORT PARITY ERROR (NOT INTERNAL WRAP) (CPSRPE)
7	CPS INTERNAL WRAP FAIL (COMMAND OR REPORT) (CPSIWF)
8	CPS REPORT PORT TIMEOUT (NOT INTERNAL WRAP) (CPSRTO)
9	CPS REPORT PORT ROM CHECKSUM FAIL (CPSRRF)
10	CPS REPORT PORT DID NOT USE BIT (STATUS WORD (CPSRD - CPS REPORT PORT DEAD)
11	CPS REPORT PORT NO DATA OUTPUT FOR 12 SECONDS (CPSRND)

BIT	<u>DESIGNATION</u>
12	NCS NO DATA RECEIVED FOR 1 SECOND (NCSNDR)
13	NOT USED
14	CMS NO DATA RECEIVED FOR 1 SECOND (CMSNDR)
15	CMS NO DATA OUTPUT FOR 1 SECOND (CMSNDO)

WORDS 28-30

	MSE	3														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wds 28-30				S	TATU	S COU	NTS	OF :	INDI	CATE	D EV	ENTS	5			

The bit designation shall be as follows:

BIT DESIGNATION

0-15 STATUS COUNTS OF INDICATED EVENTS

RANGE: 0 - 65535

40.5.18 <u>E-3 Status (Block 19)</u>.

10.5.10	E-3 Status (BIOCK 19).
1.1	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
wd 1	
wd 2	
wd 3	NUMBER OF CCP A BUFFERS NOT EMPTIED
wd 4	NUMBER OF CCP A RESULTS RECEIVED TWO SLOTS LATE
wd 5	NUMBER OF CCP A RESULTS NOT RECEIVED
wd 6	NUMBER OF CCP A TEST CONVERSION FAILS
wd 7	NUMBER OF CCP B BUFFERS NOT EMPTIED
wd 8	NUMBER OF CCP B RESULTS RECEIVED TWO SLOTS LATE
wd 9	NUMBER OF CCP B RESULTS NOT RECEIVED
wd 10	NUMBER OF CCP B TEST CONVERSION FAILS
wd 11	CCP A/B DEGRADED STATUS WORD
wd 12	CCP A/B FAIL STATUS WORD
wd 13	CCP A/B INITIALIZATION STATUS WORD
wd 14	METERED NPG A STATUS WORD
wd 15	METERED NPG B STATUS WORD
wd 16	METERED NPG C STATUS WORD
wd 17	METERED NPG D STATUS WORD
wd 18	METERED NPG E STATUS WORD
wd 19	METERED NPG F STATUS WORD
wd 20	METERED NPG G STATUS WORD
wd 21	SPARE
wd 22	SPARE
wd 23	SPARE
wd 24	SPARE
wd 25	SPARE
wd 26	SPARE
wd 27	SPARE
wd 28	SPARE
wd 29	SPARE
wd 30	SPARE
wd 31	SPARE
wd 32	SPARE
W.G. 52	5-1-4-2

WORDS 3-10

	MSE	3														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wds 3-10				S	TATUS	S COU	NTS	OF :	INDI	CATE	D EV	ENTS	5			

The bit designation shall be as follows:

<u>BIT</u> <u>DESIGNATION</u>

0-15 STATUS COUNTS OF INDICATED EVENTS

RANGE: 0 - 65535

WORD 11

CCP A/B DEGRADED STATUS WORD

	MSB														I	JSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 11															CCBLATE	C C A L A T E

BIT	DESIGNATION
0	CCP A OUTPUT RECEIVED TWO SLOTS LATE (CCALATE)
1	CCP B OUTPUT RECEIVED TWO SLOTS LATE (CCBLATE)
2-15	SPARE

CCP A/B FAIL STATUS WORD

	MSB														L	SB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 12					C B I F	СВТСF	C B W F	C B N E V	C B N O T E	C B V F	C A I F	C A T C F	C A W F	C A N E V	C A N O T E	C A V F

BIT	<u>DESIGNATION</u>
0	CCP A VERIFY FAIL (CAVF)
1	CCP A INPUT BUFFER NOT EMPTIED (CANOTE)
2	CCP A OUTPUT NOT RECEIVED (CANEV-CCP A NEVER)
3	CCP A WRAPAROUND FAIL (CAWF)
4	CCP A TET CONVERSION FAIL (CATCF)
5	CCP A INITIALIZATION FAILURE (CAIF)
6	CCP B VERIFY FAIL (CBVF)
7	CCP B INPUT BUFFER NOT EMPTIED (CBNOTE)
8	CCP B OUTPUT NOT RECEIVED (CBNEV-CCP B NEVER)
9	CCP B WRAPAROUND FAIL (CBWF)
10	CCP B TEST CONVERSION FAIL (CBTCF)
11	CCP B INITIALIZATION FAILURE (CBIF)
12-15	SPARE

CCP A/B INITIALIZATION STATUS WORD

	MSE	3														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 13															C C P B I R	C C P A I R

The bit designation shall be as follows:

BIT	DESIGNATION
0	LOGIC 1 = CCP A INITIALIZATION REQUIRED
1	LOGIC 1 = CCP B INITIALIZATION REQUIRED
2-15	SPARE

WORD 14

METERED NPG A STATUS WORD

	MSB														I	JSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 14						MET]	ERED	NPG	a S	TATU	JS					

The bit designation shall be as follows:

BIT	DESIGNATION
0-15	METERED NPG A STATUS 0 = METERED NPG FULL (NO BUFFERS AVAILABLE) 1 = BUFFER SPACE FOR 1 MORE MESSAGE .
	42 = BUFFER SPACE FOR 42 MORE MESSAGES 43 = METERED NPG EMPTY 44 - 65535 = NOT DEFINED

METERED NPG B STATUS WORD

	MSE	3													I	SB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 15						METI	ERED	NPG	B S	TATU	JS					

The bit designation shall be as follows:

BIT DESIGNATION

0-15 METERED NPG B STATUS

0 = METERED NPG FULL (NO BUFFERS AVAILABLE)

1 = BUFFER SPACE FOR 1 MORE MESSAGE

.

19 = BUFFER SPACE FOR 19 MORE MESSAGES

20 = METERED NPG EMPTY 21 - 65535 = NOT DEFINED

WORD 16

METERED NPG C STATUS WORD

	MSE	3														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 16						METI	ERED	NPG	C S	JTAT	JS					

The bit designation shall be as follows:

<u>BIT</u> <u>DESIGNATION</u>

0-15 METERED NPG C STATUS

0 = METERED NPG FULL (NO BUFFERS AVAILABLE)

1 = BUFFER SPACE FOR 1 MORE MESSAGE

•

.

19 = BUFFER SPACE FOR 19 MORE MESSAGES

20 = METERED NPG EMPTY

21 - 65535 = NOT DEFINED

METERED NPG D STATUS WORD

	MSE	3														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 17						MET]	ERED	NPG	D S	TATU	JS					

The bit designation shall be as follows:

BIT DESIGNATION

0-15 METERED NPG D STATUS

0 = METERED NPG FULL (NO BUFFERS AVAILABLE)

1 = BUFFER SPACE FOR 1 MORE MESSAGE

.

29 = BUFFER SPACE FOR 29 MORE MESSAGES

30 = METERED NPG EMPTY 31 - 65535 = NOT DEFINED

WORD 18

METERED NPG E STATUS WORD

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 18						MET	ΓERE	D NP	3 E	STAT	US					

The bit designation shall be as follows:

BIT DESIGNATION

0-15 METERED NPG E STATUS

0 = METERED NPG FULL (NO BUFFERS AVAILABLE)

1 = BUFFER SPACE FOR 1 MORE MESSAGE

•

•

29 = BUFFER SPACE FOR 29 MORE MESSAGES

30 = METERED NPG EMPTY

31 - 65535 = NOT DEFINED

METERED NPG F STATUS WORD

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 19						MET]	ERED	NPG	FS	TATU	JS					

The bit designation shall be as follows:

<u>BIT</u> <u>DESIGNATION</u>

0-15 METERED NPG F STATUS

0 = METERED NPG FULL (NO BUFFERS AVAILABLE)

1 = BUFFER SPACE FOR 1 MORE MESSAGE

.

29 = BUFFER SPACE FOR 29 MORE MESSAGES

30 = METERED NPG EMPTY 31 - 65535 = NOT DEFINED

WORD 20

METERED NPG G STATUS WORD

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 20						MET	ΓERE	D NP	3 G :	STAT	US					

The bit designation shall be as follows:

BIT DESIGNATION

0-15 METERED NPG G STATUS

0 = METERED NPG FULL (NO BUFFERS AVAILABLE)

1 = BUFFER SPACE FOR 1 MORE MESSAGE

•

•

29 = BUFFER SPACE FOR 29 MORE MESSAGES

30 = METERED NPG EMPTY

31 - 65535 = NOT DEFINED

40.5.19	9 <u>VMF Route Data</u> . (Block 20)
	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
wd 1	CONTROL WORD (SEE 40.5.1.1)
wd 2	ADDRESS WORD (SEE 40.5.1.2)
wd 3	STN ₁
wd 4	STN ₂
wd 5	STN ₃
wd 6	STN_4
wd 7	NUMBER OF ROUTES FOR STN,
wd 8	NUMBER OF ROUTES FOR STN ₂
wd 9	NUMBER OF ROUTES FOR STN ₃
wd 10	NUMBER OF ROUTES FOR STN ₄
wd 11	ROUTE DATA FOR STN, WORD 1
wd 12	ROUTE DATA FOR STN, WORD 2
wd 13	ROUTE DATA FOR STN, WORD 3
wd 14	ROUTE DATA FOR STN, WORD 4
wd 15	ROUTE DATA FOR STN ₂ WORD 1
wd 16	ROUTE DATA FOR STN ₂ WORD 2
wd 17	ROUTE DATA FOR STN ₂ WORD 3
wd 18	ROUTE DATA FOR STN ₂ WORD 4
wd 19	ROUTE DATA FOR STN, WORD 1
wd 20	ROUTE DATA FOR STN ₃ WORD 2
wd 21	ROUTE DATA FOR STN ₃ WORD 3
wd 22	ROUTE DATA FOR STN, WORD 4
wd 23	ROUTE DATA FOR STN, WORD 1
wd 24	ROUTE DATA FOR STN, WORD 2
wd 25	ROUTE DATA FOR STN, WORD 3
wd 26	ROUTE DATA FOR STN ₄ WORD 4
wd 27	NOT USED
wd 28	NOT USED
wd 29	NOT USED
wd 30	NOT USED
wd 31	NOT USED
wd 32	NOT USED

STATUS BLOCK 20

40.5.19.1 Route Source Track Number Words 1-4. (Block 20, Words 3-6)

	MSE	3														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 3								S	$\mathrm{TN}_{\scriptscriptstyle 1}$							
wd 4								S	$\mathrm{TN}_{_2}$							
wd 5								S	$\mathrm{TN}_{_3}$							
wd 6								S	$\mathrm{TN}_{_4}$							

The bit designation shall be as follows:

BIT DESIGNATION

0-14 SOURCE TRACK NUMBER OF ROUTE (STN₁-STN₄)

0 = NO STATEMENT

1-32767 = STN OF ROUTE

15 NOT USED

FOR NAVY SHIPBOARD AND NAVY AIRBORNE: THIS WORD IS NOT USED.

40.5.19.2 <u>Number of Routes Words 1-4</u>. (Block 20, Words 7-10)

	MSE	3														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 7														R	1	
wd 8														R	2	
wd 9														R	3	
wd 10														R	4	

The bit designation shall be as follows:

BIT DESIGNATION

0-3 NUMBER OF ROUTE (R_j) FOR EACH SOURCE TRACK NUMBER (STN_j) (WHERE $j=1,\ 2,\ 3,\ 4$)

4-15 NOT USED

FOR NAVY SHIPBOARD AND NAVY AIRBORNE: THIS WORD IS NOT USED.

40.5.19.3 Route Data For STN Words. (Block 20, Words 11-26)

	MSB		T										T		_	LSB	•
	1 5	1 4	1 3	1 2	1 1	1 0	9	8	7	6	5	4	3	2	1	0	Н
wd 11	М	DE	ST	RI	ΞP	G <i>P</i>	I L	OC]	REC	RATE	1		RT	NUM		
wd 12	M	DE	ST	RI	ΞP	G <i>P</i>	I L	OC]	REC	RATE	1		RT	NUM		S T
wd 13	M	DE	ST	RI	ΞP	G <i>P</i>	I L	OC]	REC	RATE	1		RT	NUM		N 1
wd 14	M	DE	ST	RI	ΞP	G <i>P</i>	I L	OC]	REC	RATE]		RT	NUM		
wd 15	M	DE	ST	RI	ΞP	GA	I L	OC]	REC	RATE	1		RT	NUM		
wd 16	M	DE	ST	RI	ΞP	GA	I L	OC]	REC	RATE	1		RT	NUM		S T
wd 17	M	DE	ST	RI	ΞP	G <i>P</i>	I L	OC]	REC	RATE	1		RT	NUM		N 2
wd 18	M	DE	ST	RI	ΞP	G <i>P</i>	I L	OC]	REC	RATE	1		RT	NUM		
wd 19	M	DE	ST	RI	ΞP	G <i>P</i>	I L	OC]	REC	RATE	1		RT	NUM		
wd 20	M	DE	ST	RI	ΞP	G <i>P</i>	I L	OC]	REC	RATE	1		RT	NUM		S T
wd 21	M	DE	ST	RI	ΞP	G <i>P</i>	I L	OC]	REC	RATE	1		RT	NUM		N 3
wd 22	M	DE	ST	RI	ΞP	GA	I L	OC]	REC	RATE	1		RT	NUM		
wd 23	M	DE	ST	RI	ΞP	GA	I L	OC]	REC	RATE]		RT	NUM		
wd 24	M	DE	ST	RI	ΞP	G <i>P</i>	I L	OC]	REC	RATE	1		RT	NUM		S T
wd 25	M	DE	ST	RI	ΞP	G <i>P</i>	I L	OC]	REC	RATE	1		RT	NUM		N 4
wd 26		DE	ST	RI	ΞP	G <i>P</i>	I L	OC] :	REC	RATE	1		RT	NUM		-

The bit designation shall be as follows:

BIT	<u>DESIGNATION</u>
0-3	ROUTE NUMBER (RT NUM) RANGE: 0-15
4-7	RECURRENCE RATE (REC RATE) RANGE: 0-15
8-10	GROUP ADDRESS INDICATOR LOCATION (GAI LOC) ORDINAL POSITION OF THE TERMINAL'S TRACK NUMBER IN ROUTE ESTABLISHMENT MESSAGE 0 = FIRST TN 1 = SECOND TN : : : 7 = EIGHTH TN

FOR NAVY SHIPBOARD AND NAVY AIRBORNE: THIS WORD IS NOT USED.

BIT DESIGNATION (CONTINUED)
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- 11-12 REPETITION (REP)
 - NUMBER OF RETRANSMISSIONS TO BE ATTEMPTED IF MONITORING IS REQUIRED
- 13-14 DESTINATION (DEST)

BITS 14 • 13

• • • • • • •

- 0 0 TERMINAL IS NOT A DESTINATION
 - ON ROUTE
- 0 1 TERMINAL TN IS A DESTINATION
 - ON ROUTE
- 1 0 ONE OF THE TERMINAL'S SECONDARY TNS
 - IS A DESTINATION ON ROUTE
- 1 1 ROUTE IS "NO STATEMENT"
- 15 MONITOR (M)

DENOTES WHETHER TERMINAL SHOULD EXPECT TO HEAR RETRANSMISSIONS BY THE NEXT RELAY IN THE ROUTE

- 0 = MONITORING NOT REQUIRED
- 1 = MONITORING REQUIRED

FOR NAVY SHIPBOARD AND NAVY AIRBORNE: THIS WORD IS NOT USED.

wd 1 wd 2 wd 3 wd 4 wd 5	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 CONTROL WORD (SEE 40.5.1.1) ADDRESS WORD (SEE 40.5.1.2)
wd 2 wd 3 wd 4	ADDRESS WORD (SEE 40.5.1.2)
wd 3 wd 4	
wd 4	
	DIRECT COMMUNICANT WORD 1
7.77d E	DIRECT COMMUNICANT WORD 2
wa s	DIRECT COMMUNICANT WORD 1
wd 6	DIRECT COMMUNICANT WORD 2
wd 7	DIRECT COMMUNICANT WORD 1
wd 8	DIRECT COMMUNICANT WORD 2
wd 9	DIRECT COMMUNICANT WORD 1
wd 10	DIRECT COMMUNICANT WORD 2
wd 11	DIRECT COMMUNICANT WORD 1
wd 12	DIRECT COMMUNICANT WORD 2
wd 13	DIRECT COMMUNICANT WORD 1
wd 14	DIRECT COMMUNICANT WORD 2
wd 15	DIRECT COMMUNICANT WORD 1
wd 16	DIRECT COMMUNICANT WORD 2
wd 17	DIRECT COMMUNICANT WORD 1
wd 18	DIRECT COMMUNICANT WORD 2
wd 19	INDIRECT COMMUNICANTS THROUGH DIRECT (1) WORD 1
wd 20	INDIRECT COMMUNICANTS THROUGH DIRECT (1) WORD 2
wd 21	INDIRECT COMMUNICANTS THROUGH DIRECT (1) WORD 3
wd 22	INDIRECT COMMUNICANTS THROUGH DIRECT (1) WORD 4
wd 23	INDIRECT COMMUNICANTS THROUGH DIRECT (1) WORD 5
wd 24	INDIRECT COMMUNICANTS THROUGH DIRECT (1) WORD 6
wd 25	INDIRECT COMMUNICANTS THROUGH DIRECT (1) WORD 7
wd 26	INDIRECT COMMUNICANTS THROUGH DIRECT (1) WORD 8
wd 27	INDIRECT COMMUNICANTS THROUGH DIRECT (2) WORD 1
wd 28	INDIRECT COMMUNICANTS THROUGH DIRECT (2) WORD 2
wd 29	INDIRECT COMMUNICANTS THROUGH DIRECT (2) WORD 3
wd 30	INDIRECT COMMUNICANTS THROUGH DIRECT (2) WORD 4
wd 31	INDIRECT COMMUNICANTS THROUGH DIRECT (2) WORD 5
wd 32	INDIRECT COMMUNICANTS THROUGH DIRECT (2) WORD 6

STATUS BLOCK 21-23

40.5.20	5.20 <u>Continued</u> . (Block 21 through 23) - ARMY ONLY														
	15 14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CONTROL V	NORD (SE	E 40.5	5.1.1)											
wd 2	ADDRESS WORD (SEE 40.5.1.2)														
wd 3	INDIRECT COMMUNICANTS THROUGH DIRECT (2) WORD 7														
wd 4	INDIRECT	COMMUNI	CANTS	THROUG	GH DIR	ECT (2	2) WORI	8							
wd 5	INDIRECT	COMMUNI	CANTS	THROUG	GH DIR	ECT (3	B) WORI	1							
wd 6	INDIRECT	COMMUNI	CANTS	THROUG	GH DIR	ECT (3	B) WORI	2							
wd 7	INDIRECT	COMMUNI	CANTS	THROUG	GH DIR	ECT (3	B) WORI	3							
wd 8	INDIRECT	COMMUNI	CANTS	THROUG	GH DIR	ECT (3	B) WORI	4							
wd 9	INDIRECT	COMMUNI	CANTS	THROUG	GH DIR	ECT (3	B) WORI	5							
wd 10	INDIRECT	COMMUNI	CANTS	THROUG	GH DIR	ECT (3	B) WORI	6							
wd 11	INDIRECT	COMMUNI	CANTS	THROUG	GH DIR	ECT (3	B) WORI	7							
wd 12	INDIRECT	COMMUNI	CANTS	THROUG	GH DIR	ECT (3	B) WORI	8							
wd 13	INDIRECT	COMMUNI	CANTS	THROUG	GH DIR	ECT (4) WORI	1							
wd 14	INDIRECT	COMMUNI	CANTS	THROUG	GH DIR	ECT (4) WORI	2							
wd 15	INDIRECT	COMMUNI	CANTS	THROUG	GH DIR	ECT (4) WORI	3							
wd 16	INDIRECT	COMMUNI	CANTS	THROUG	GH DIR	ECT (4) WORI	4							
wd 17	INDIRECT	COMMUNI	CANTS	THROUG	GH DIR	ECT (4) WORI	5							
wd 18	INDIRECT	COMMUNI	CANTS	THROUG	GH DIR	ECT (4) WORI	6							
wd 19	INDIRECT	COMMUNI	CANTS	THROUG	GH DIR	ECT (4) WORI	7							
wd 20	INDIRECT	COMMUNI	CANTS	THROUG	GH DIR	ECT (4) WORI	8 (
wd 21	INDIRECT	COMMUNI	CANTS	THROUG	GH DIR	ECT (5) WORI	1							
wd 22	INDIRECT	COMMUNI	CANTS	THROUG	GH DIR	ECT (5) WORI	2							
wd 23	INDIRECT	COMMUNI	CANTS	THROUG	GH DIR	ECT (5) WORI	3							
wd 24	INDIRECT	COMMUNI	CANTS	THROUG	GH DIR	ECT (5) WORI	4							
wd 25	INDIRECT	COMMUNI	CANTS	THROUG	GH DIR	ECT (5) WORI	5							
wd 26	INDIRECT	COMMUNI	CANTS	THROUG	GH DIR	ECT (5) WORI	6							
wd 27	INDIRECT	COMMUNI	CANTS	THROUG	GH DIR	ECT (5) WORI	7							
wd 28	INDIRECT	COMMUNI	CANTS	THROUG	GH DIR	ECT (5) WORI	8 (
wd 29	INDIRECT	COMMUNI	CANTS	THROUG	GH DIR	ECT (6) WORI	1							
wd 30	INDIRECT	COMMUNI	CANTS	THROUG	GH DIR	ECT (6) WORI	2							
wd 31	INDIRECT	COMMUNI	CANTS	THROUG	GH DIR	ECT (6) WORI	3							
wd 32	INDIRECT	COMMUNI	CANTS	THROUG	GH DIR	ECT (6) WORI	4							

STATUS BLOCK 21-23

40.5.20	40.5.20 Continued. (Block 21 through 23) - ARMY ONLY														
	15 14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CONTROL	WORD (SE	E 40.	5.1.1)											
wd 2	ADDRESS WORD (SEE 40.5.1.2)														
wd 3	INDIRECT COMMUNICANTS THROUGH DIRECT (6) WORD 5														
wd 4	INDIRECT	INDIRECT COMMUNICANTS THROUGH DIRECT (6) WORD 6													
wd 5	INDIRECT	INDIRECT COMMUNICANTS THROUGH DIRECT (6) WORD 7													
wd 6	INDIRECT COMMUNICANTS THROUGH DIRECT (6) WORD 8														
wd 7	INDIRECT	COMMUNI	CANTS	THROU	GH DIR	ECT (7) WORI	1							
wd 8	INDIRECT	COMMUNI	CANTS	THROU	GH DIR	ECT (7) WORI	2							
wd 9	INDIRECT	COMMUNI	CANTS	THROU	GH DIR	ECT (7) WORI	3							
wd 10	INDIRECT	COMMUNI	CANTS	THROU	GH DIR	ECT (7) WORI	4							
wd 11	INDIRECT	COMMUNI	CANTS	THROU	GH DIR	ECT (7) WORI	5							
wd 12	INDIRECT	COMMUNI	CANTS	THROU	GH DIR	ECT (7) WORI	6							
wd 13	INDIRECT	COMMUNI	CANTS	THROU	GH DIR	ECT (7) WORI	7							
wd 14	INDIRECT	COMMUNI	CANTS	THROU	GH DIR	ECT (7) WORI	8							
wd 15	INDIRECT	COMMUNI	CANTS	THROU	GH DIR	ECT (8) WORI	1							
wd 16	INDIRECT	COMMUNI	CANTS	THROU	GH DIR	ECT (8) WORI	2							
wd 17	INDIRECT	COMMUNI	CANTS	THROU	GH DIR	ECT (8) WORI	3							
wd 18	INDIRECT	COMMUNI	CANTS	THROU	GH DIR	ECT (8) WORI	4							
wd 19	INDIRECT	COMMUNI	CANTS	THROU	GH DIR	ECT (8) WORI	5							
wd 20	INDIRECT	COMMUNI	CANTS	THROU	GH DIR	ECT (8) WORI	6							
wd 21	INDIRECT	COMMUNI	CANTS	THROU	GH DIR	ECT (8) WORI	7							
wd 22	INDIRECT	COMMUNI	CANTS	THROU	GH DIR	ECT (8) WORI	8							
wd 23	NOT USED														
wd 24	NOT USED														
wd 25	NOT USED														
wd 26	NOT USED														
wd 27	NOT USED														
wd 28	NOT USED														
wd 29	NOT USED														
wd 30	NOT USED														
wd 31	NOT USED														
wd 32	NOT USED														

STATUS BLOCK 21-23

40.5.20.1 <u>Direct Communicant Words</u>. (Block 21, Words 3-18) - ARMY ONLY

	MSB														L	SB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1							DI	RECT	TN	(1)						
wd 2															Q	1
wd 3							DI	RECT	' TN	(2)						
wd 4															Q	2
wd 5							DI	RECT	TN	(3)						
wd 6															Q	3
wd 7							DI	RECT	' TN	(4)						
wd 8															Q	4
wd 9							DI	RECT	' TN	(5)						
wd 10															Q	5
wd 11							DI	RECT	' TN	(6)						
wd 12															Q	6
wd 13							DI	RECT	' TN	(7)						
wd 14															Q	7
wd 15							DI	RECT	' TN	(8)						
wd 16															Q	8

The bit designation shall be as follows:

WORDS 1, 3, 5, 7, 9. 11. 13. 15

<u>BIT</u> <u>DESIGNATION</u>

0-14 DIRECT TRACK NUMBER (DIRECT TN (1) THROUGH DIRECT TN (8))
TN OF DIRECT COMMUNICANT

15 NOT USED

WORDS 2, 4, 6, 8, 10, 12, 14, 16

BIT DESIGNATION

0-1 LINK QUALITY (Qj) OF DIRECT TRACK NUMBER (DIRECT TNj) (WHERE j=1, 2, 3...8)

2-15 NOT USED

40.5.20.2 <u>Indirect Communicant Through Direct Communicant Words</u>. (Block 21, Words 19-32, Block 22, Words 3-32, Block 23, Words 3-22) - ARMY ONLY

	MSE	3		•		r	1	1			1				1	LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1			INDIRECT TN (1,1)H													
wd 2			INDIRECT TN (2,1)H													
wd 3						I	NDIF	RECT	TN	(3,1) H					
wd 4						I	NDIF	RECT	TN	(4,1) H					
wd 5						I	NDIF	RECT	TN	(5,1) H					
wd 6						I	NDIF	RECT	TN	(6,1) H					
wd 7						I	NDIF	RECT	TN	(7,1) H					
wd 8						I	NDIF	RECT	TN	(8,1) H					
:									:							
wd 57							INDI	RECT	TN	(1,8	3) I					
wd 58						-	INDI	RECT	TN	(2,8	3) I					
wd 59						-	INDI	RECT	TN	(3,8	3) I					
wd 60						-	INDI	RECT	TN	(4,8	3) I					
wd 61						-	INDI	RECT	TN	(5,8	3) I					
wd 62						-	INDI	RECT	TN	(6,8	3) I					
wd 63						-	INDI	RECT	TN	(7,8	3) I					
wd 64							INDI	RECT	' TN	(8,8	3) I					

H INDIRECT COMMUNICANTS THROUGH DIRECT TN (1)

I INDIRECT COMMUNICANTS THROUGH DIRECT TN (8)

The bit designation shall be as follows:

BIT	DESIGNATION
0-14	TRACK NUMBER OF INDIRECT COMMUNICANT, i (i=1,2,38) CONNECTED THROUGH DIRECT TRACK NUMBER, j (j=1,2,38) (INDIRECT TN (i,j)
15	NOT USED

40.5.21	Position Status Request/Response. (Block 24) - ARMY ONLY
	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
wd 1	CONTROL WORD (SEE 40.5.1.1)
wd 2	ADDRESS WORD (SEE 40.5.1.2)
wd 3	POSITION REQUEST/RESPONSE CONTROL WORD
wd 4	TRACK NUMBER
wd 5	UNIT DESIGNATOR WORD 1
wd 6	UNIT DESIGNATOR WORD 2
wd 7	UNIT DESIGNATOR WORD 3
wd 8	REQUESTED POSITION LATITUDE WORD 1
wd 9	REQUESTED POSITION LATITUDE WORD 2
wd 10	REQUESTED POSITION LONGITUDE WORD 1
wd 11	REQUESTED POSITION LONGITUDE WORD 2
wd 12	REQUESTED POSITION UTM COORDINATES WORD 1
wd 13	REQUESTED POSITION UTM COORDINATES WORD 2
wd 14	REQUESTED POSITION UTM COORDINATES WORD 3
wd 15	REQUESTED POSITION UTM COORDINATES WORD 4
wd 16	REQUESTED POSITION UTM COORDINATES WORD 5
wd 17	REQUESTED POSITION UTM COORDINATES WORD 6
wd 18	REQUESTED POSITION UTM COORDINATES WORD 7
wd 19	NOT USED
wd 20	NOT USED
wd 21	NOT USED
wd 22	NOT USED
wd 23	NOT USED
wd 24	NOT USED
wd 25	NOT USED
wd 26	NOT USED
wd 27	NOT USED
wd 28	NOT USED
wd 29	NOT USED
wd 30	NOT USED
wd 31	NOT USED
wd 32	NOT USED

	MSE	3														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	UD TN															<u>UT</u> <u>M</u> LL

The bit designation shall be as follows:

BIT	<u>DESIGNATION</u>
0	UTM/LAT-LONG DESIGNATOR (UTM/LL) LOGIC 1 = POSITION REQUEST/RESPONSE FORMAT IS IN UTM/UPS COORDINATES
	LOGIC 0 = POSITION REQUEST/RESPONSE FORMAT IS IN LATITUDE-LONGITUDE COORDINATED
1-14	NOT USED
15	UNIT/DESIGNATOR/TRACK NUMBER (UD/TN) LOGIC 1 = REQUEST/RESPONSE IS BY UNIT DESIGNATOR LOGIC 0 = REOUEST/RESPONSE IS BY TRACK NUMBER

40.5.21.2 Track Number. (Block 24, Word 4). - ARMY ONLY

		MSB											LSB				
		15	14	13	12	11	10	9	æ	7	6	5	4	3	2	1	0
	1							m) 7) CITZ	NTT TN/	חבט						
	wd 4							11	RACK	NUM	BEK						

The bit designation shall be as follows:

BIT	<u>DESIGNATION</u>					
0-14	TRACK NUMBER 77777)	CONSISTS OF	FIVE OCTA	L DIGITS	(00000	ТО
	D 4	D 3	D 2	D 1	D 0	
15	BITS 14,13,1 NOT USED	2 11,10,9	8,7,6	5,4,3	2,1,0	

40.5.21.3 <u>Unit Designator Words</u>. (Block 24, Words 5 through 7). - ARMY ONLY

	MSE	3														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 5	C	HARA	CTER	ER 3 CHARACTER 2 CHARAC							CTER	1				
wd 6	СН	6		CH	IARAC	TER !	5			СН	IARA(CTER	4		СН	3
wd 7	CHARACTER 8 CHARACTER 7						7		СН	ARAC	CTER	6				

The bit designation shall be as follows:

EIGHT CHARACTER (6 BITS PER CHARACTER) UNIT DESIGNATOR

CHARACTER VALUE

- 0 REQUEST BY TRACK NUMBER (ALL CHARACTERS WILL BE SET TO ZERO)
- 1-63 VALID CHARACTER CODE

40.5.21.4 Requested Position Latitude Words. (Block 24, Words 8 and 9). - ARMY ONLY

	MSE	3														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 8							\mathbb{L}^{I}	ATIT	UDE							L S B
wd 9										M S B		L <i>I</i>	TITA	JDE		

The bit designation shall be as follows:

WORD 1

BIT	DESIGNATION
0-15	16 BITS OF 23 BIT REQUESTED POSITION LATITUDE SOUTH LATITUDE QUANTITIES SHALL BE IN TWO'S COMPLEMENT NOTATION. REMAINING 7 BITS ARE LOCATED IN WORD 2 LSB: 90/4, 194, 303 DEG

WORD 2

BIT	DESIGNATION
0-6	REMAINING 7 BITS OF 23 BIT REQUESTED POSITION LATITUDE
7-15	NOT USED

40.5.21.5 Requested Position Longitude Words. (Block 24, Words 10 and 11). - ARMY ONLY

	MSE	3														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 10	LONGITUDE												L S B			
wd 11	M S LONGITUDE B															

The bit designation shall be as follows:

WORD 1

BIT	<u>DESIGNATION</u>
0-15	16 BITS OF 24 BIT REQUESTED POSITION LONGITUDE WEST LONGITUDE QUANTITIES SHALL BE IN TWO'S COMPLEMENT NOTATION. REMAINING 8 BITS ARE LOCATED IN WORD 2. LSB: 180/8, 388, 607 DEG

WORD 2

BIT	DESIGNATION
0-7	REMAINING 8 BITS OF 24 BIT REQUESTED POSITION LONGITUDE
8-15	NOT USED

40.5.21.6 <u>Requested Position UTM Coordinate Words</u>. (Block 24, Words 12 through 18) - ARMY ONLY

	MSE	3														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1		U'	TM/U	PS CH	ARAC	UTM/UPS CHARACTER 1										
wd 2		U'	TM/U	PS CH	ARAC	TER	4		UTM/UPS CHARACTER 3							
wd 3	UTM/UPS CHARACTER 6									UTM/UPS CHARACTER 5						
wd 4	UTM/UPS CHARACTER 8									UTM/UPS CHARACTER 7						
wd 5	UTM/UPS CHARACTER 10								UTM/UPS CHARACTER 9							
wd 6	UTM/UPS CHARACTER 12									UTM/UPS CHARACTER 11						
wd 7								UT	M/UP	S CH	IARAC	CTER	13			

The bit designation shall be as follows:

UTM/UPS COORDINATES SHALL BE REPRESENTED BY THE FOLLOWING THIRTEEN (13) CHARACTER STRING (WHERE THE LEFTMOST CHARACTER IS CHARACTER 1 AND THE RIGHTMOST CHARACTER IS CHARACTER 13):

IN UPS COORDINATES, CHARACTERS 1 AND 2 SHALL BE SET TO ZERO (0). EACH OF THE ABOVE CHARACTERS SHALL BE 8-BIT ASCII CODED REPRESENTATIONS OF A DIGIT (D) OR A LETTER (L).

WORD 1, BITS 0-7:	<u>UTM/UPS CHARACTER 1</u> - MOST SIGNIFICANT DIGITOR OF GRID ZONE.	Γ
WORD 1, BITS 8-15:	UTM/UPS CHARACTER 2 - LEAST SIGNIFICANT DIG	ΙT
WORD 2, BITS 0-7:	<u>UTM/UPS CHARACTER 3</u> - GRID ZONE LETTER.	
WORD 2, BITS 8-15:	<u>UTM/UPS CHARACTER 4</u> - AREA COLUMN (A LETTER DESIGNATION.)
WORD 3, BITS 0-7:	<u>UTM/UPS CHARACTER 5</u> - AREA ROW (A LETTER) DESIGNATION.	
WORD 3, BITS 8-15:	<u>UTM/UPS CHARACTER 6</u> - TEN THOUSANDS DIGIT OF EASTING ZONE.	₹

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WORD 4, BITS 0-7:	<u>UTM/UPS CHARACTER 7</u> - THOUSANDS DIGIT OF EASTING
WORD 4, BITS 8-15:	<u>UTM/UPS CHARACTER 8</u> - HUNDREDS DIGIT OF EASTING.
WORD 5, BITS 0-7:	UTM/UPS CHARACTER 9 - TENS DIGIT OF EASTING
WORD 5, BITS 8-15:	$\underline{\text{UTM/UPS CHARACTER 10}}$ - TEN THOUSANDS DIGIT OF NORTHING.
WORD 6, BITS 0-7:	<u>UTM/UPS CHARACTER 11</u> - THOUSANDS DIGIT OF NORTHING
WORD 6, BITS 8-15:	<u>UTM/UPS CHARACTER 12</u> - HUNDREDS DIGIT OF NORTHING.
WORD 7, BITS 0-7:	UTM/UPS CHARACTER 13 - TENDS DIGIT OF NORTHING

40.5.22	2 <u>Needline Status</u> . (Block 25 through 27) - ARMY ONLY												
	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0												
wd 1	CONTROL WORD (SEE 40.5.1.1)												
wd 2	ADDRESS WORD (SEE 40.5.1.2)												
wd 3	NCS STATUS/BUFFER STATUS												
wd 4	NEEDLINE STATUS WORD 1												
wd 5	NEEDLINE STATUS WORD 2												
wd 6	NEEDLINE STATUS WORD 3												
wd 7	NEEDLINE STATUS WORD 4												
wd 8	NEEDLINE STATUS WORD 5												
wd 9	NEEDLINE STATUS WORD 6												
wd 10	NEEDLINE STATUS WORD 7												
wd 11	NEEDLINE STATUS WORD 8												
wd 12	NEEDLINE STATUS WORD 9												
wd 13	NEEDLINE STATUS WORD 10												
wd 14	NEEDLINE STATUS WORD 11												
wd 15	NEEDLINE STATUS WORD 12												
wd 16	NEEDLINE STATUS WORD 13												
wd 17	NEEDLINE STATUS WORD 14												
wd 18	NEEDLINE STATUS WORD 15												
wd 19	NEEDLINE STATUS WORD 16												
wd 20	NEEDLINE STATUS WORD 17												
wd 21	NEEDLINE STATUS WORD 18												
wd 22	NEEDLINE STATUS WORD 19												
wd 23	NEEDLINE STATUS WORD 20												
wd 24	NEEDLINE STATUS WORD 21												
wd 25	NEEDLINE STATUS WORD 22												
wd 26	NEEDLINE STATUS WORD 23												
wd 27	NEEDLINE STATUS WORD 24												
wd 28	NEEDLINE STATUS WORD 25												
wd 29	NEEDLINE STATUS WORD 26												
wd 30	NEEDLINE STATUS WORD 27												
wd 31	NEEDLINE STATUS WORD 28												
wd 32	NEEDLINE STATUS WORD 29												

40.5.22	2 <u>Continued</u> . (Block 25 through 27) - ARMY ONLY												
	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0												
wd 1	CONTROL WORD (SEE 40.5.1.1)												
wd 2	ADDRESS WORD (SEE 40.5.1.2)												
wd 3	NEEDLINE STATUS WORD 30												
wd 4	NEEDLINE STATUS WORD 31												
wd 5	NEEDLINE STATUS WORD 32												
wd 6	NEEDLINE STATUS WORD 33												
wd 7	NEEDLINE STATUS WORD 34												
wd 8	NEEDLINE STATUS WORD 35												
wd 9	NEEDLINE STATUS WORD 36												
wd 10	NEEDLINE STATUS WORD 37												
wd 11	NEEDLINE STATUS WORD 38												
wd 12	NEEDLINE STATUS WORD 39												
wd 13	NEEDLINE STATUS WORD 40												
wd 14	NEEDLINE STATUS WORD 41												
wd 15	NEEDLINE STATUS WORD 42												
wd 16	NEEDLINE STATUS WORD 43												
wd 17	NEEDLINE STATUS WORD 44												
wd 18	NEEDLINE STATUS WORD 45												
wd 19	NEEDLINE STATUS WORD 46												
wd 20	NEEDLINE STATUS WORD 47												
wd 21	NEEDLINE STATUS WORD 48												
wd 22	NEEDLINE STATUS WORD 49												
wd 23	NEEDLINE STATUS WORD 50												
wd 24	NEEDLINE STATUS WORD 51												
wd 25	NEEDLINE STATUS WORD 52												
wd 26	NEEDLINE STATUS WORD 53												
wd 27	NEEDLINE STATUS WORD 54												
wd 28	NEEDLINE STATUS WORD 55												
wd 29	NEEDLINE STATUS WORD 56												
wd 30	NEEDLINE STATUS WORD 57												
wd 31	NEEDLINE STATUS WORD 58												
wd 32	NEEDLINE STATUS WORD 59												

40.5.22	2 <u>Continued</u> . (Block 25 through 27) - ARMY ONLY												
	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0												
wd 1	CONTROL WORD (SEE 40.5.1.1)												
wd 2	ADDRESS WORD (SEE 40.5.1.2)												
wd 3	NEEDLINE STATUS WORD 60												
wd 4	NEEDLINE STATUS WORD 61												
wd 5	NEEDLINE STATUS WORD 62												
wd 6	NEEDLINE STATUS WORD 63												
wd 7	NEEDLINE STATUS WORD 64												
wd 8	NOT USED												
wd 9	NOT USED												
wd 10	NOT USED												
wd 11	NOT USED												
wd 12	NOT USED												
wd 13	NOT USED												
wd 14	NOT USED												
wd 15	NOT USED												
wd 16	NOT USED												
wd 17	NOT USED												
wd 18	NOT USED												
wd 19	NOT USED												
wd 20	NOT USED												
wd 21	NOT USED												
wd 22	NOT USED												
wd 23	NOT USED												
wd 24	NOT USED												
wd 25	NOT USED												
wd 26	NOT USED												
wd 27	NOT USED												
wd 28	NOT USED												
wd 29	NOT USED												
wd 30	NOT USED												
wd 31	NOT USED												
wd 32	NOT USED												

40.5.22.1 NCS Status/Buffer Status Words. (Block 25, Word 3) - ARMY ONLY

	MSB														LSB	
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 3	T N C S	N N C S	N S I P	N C N N A	N S N N										S T B O	S R B O

The bit designation shall be as follows:

BIT	<u>DESIGNATION</u>
0	LOGIC 1 = SICP RECEIVE BUFFER OVERFLOW (SRBO)
1	LOGIC 1 = SICP TRANSMIT BUFFER OVERFLOW (STBO)
2-10	NOT USED
11	LOGIC 1 = NET STATUS NEEDLINE NOT ACTIVE (NSNNA)
12	LOGIC 1 = NET CONTROL NEEDLINE NOT ACTIVE (NCNNA)
13	LOGIC 1 = NO NCS OR FAILED NCS; NCS SEARCH IN PROGRESS (NSIP)
14	LOGIC 1 = NO NCS, FAILED OR UNFAILED (NNCS)
15	LOGIC 1 = TERMINAL IS AN NCS; BITS 11-14 ARE INVALID

40.5.22.2 Needline Status Words . (Block 25, Words 4-32, Block 26, Words 3-32, Block 27, Words 3-7) - ARMY ONLY

MSE	3														LSB
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
		NI	EEDLI	NE N	PG NO	ο.			T R I	P T H O S	P T H 1	P M E	R T S		

The bit designation shall be as follows:

BIT	<u>DESIGNATION</u>
0	NOT USED
2	LOGIC 1 = EXCESSIVE RESPONSE TIME STATUS (RTS)
3	LOGIC 1 = TWO-WAY PATH MONITORING ENABLE (PME)
4	LOGIC 1 = PATH 1 FAILED (PTH1S)
5	LOGIC 1 = PATH 0 FAILED (PTHOS)
6	TRANSMIT/RECEIVE INDICATOR (TRI) LOGIC 1 = TRANSMIT LOGIC 0 = RECEIVE
7-15	NEEDLINE NPG NUMBER 0-31 = NOT USED 32-509 = NPG NUMBER 510-512 = NOT USED

NOTE: NEEDLINE STATUS WORD N CORRESPONDS TO SLOT BLOCK N (1 # N # 64).

40.5.23	3 Communicant Status. (Block 28) - ARMY ONLY														
	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0														
wd 1	CONTROL WORD (SEE 40.5.1.1)														
wd 2	ADDRESS WORD (SEE 40.5.1.2)														
wd 3	COMMUNICANT STATUS WORD 1														
wd 4	COMMUNICANT STATUS WORD 2														
wd 5	COMMUNICANT STATUS WORD 3														
wd 6	COMMUNICANT STATUS WORD 4														
wd 7	COMMUNICANT STATUS WORD 5														
wd 8	COMMUNICANT STATUS WORD 6														
wd 9	COMMUNICANT STATUS WORD 7														
wd 10	COMMUNICANT STATUS WORD 8														
wd 11	COMMUNICANT STATUS WORD 9														
wd 12	COMMUNICANT STATUS WORD 10														
wd 13	COMMUNICANT STATUS WORD 11														
wd 14	COMMUNICANT STATUS WORD 12														
wd 15	COMMUNICANT STATUS WORD 13														
wd 16	COMMUNICANT STATUS WORD 14														
wd 17	COMMUNICANT STATUS WORD 15														
wd 18	COMMUNICANT STATUS WORD 16														
wd 19	NOT USED														
wd 20	NOT USED														
wd 21	NOT USED														
wd 22	NOT USED														
wd 23	NOT USED														
wd 24	NOT USED														
wd 25	NOT USED														
wd 26	NOT USED														
wd 27	NOT USED														
wd 28	NOT USED														
wd 29	NOT USED														
wd 30	NOT USED														
wd 31	NOT USED														
wd 32	NOT USED														

40.5.23.1 Communicant Status Words. (Block 28, Words 3-18) - ARMY ONLY

														SB																		
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0																
wd 1	CÇ	80	QO	27	QQ	26	QQ	25	QC	24	Q	C3	QQ	22	QC	1																
wd 2	QC	16	QC	15	QC	14	QC13		QC12		QC11		QC10		QC	19																
wd 3	QC	24	QC	23	QC22		QC21		QC20		QC	19	QC	18	QC.	17																
wd 4	QC	32	QC31		QC	30	QC	29	QC	28	QC	27	QC	26	QC.	25																
wd 5 QC		40	QC39		QC	38	QC	37	QC	36	QC	235	QC	34	QC	33																
wd 6	QC	48	QC	47	QC	46	QC	45	QC	44	QC	243	QC	42	QC-	41																
wd 7	QC	56	QC	QC55		54	QC	53	QC52		QC	51	QC	150	QC-	49																
wd 8	QC	64	QC63		QC62		QC61		QC60		QC59		QC58		QC	57																
wd 9	QC	72	QC71		QC70		QC69		QC68		QC67		QC	66	QC	65																
wd 10	QC	80	QC	79	QC78		QC77		QC76		QC75		QC	174	QC'	73																
wd 11	QC	88	QC	87	QC	86	QC	85	QC	84	QC83		QC83		QC83		QC83		QC83		QC83		QC83		QC83		QC83		QC	82	QC	81
wd 12	QC	96	QC	95	QC	94	QC	93	QC	92	QC	91	QC	90	QC	89																
wd 13	QC1	104	QC1	103	QC1	L02	QC1	.01	QC1	.00	QC	299	QC	98	QC	97																
wd 14	QC1	112	QC:	111	QC1	L10	QC109 QC108 QC107 QC106		106	QC1	.05																					
wd 15	QC1	L20	QC:	119	QC1	L18	QC1	.17	QC1	.16	QC	115	QC114		QC1	.13																
wd 16	QC128		QC1	L27	' QC126		QC125		QC124		QC123		QC122		QC1	.21																

The bit designation shall be as follows:

WORD 1

<u>B1.1.</u>	<u>DESIGNATION</u>		
0-1	CONNECTIVITY	QUALITY	(QC1)
:	:	:	:
14-15	CONNECTIVITY	QUALITY	(QC8)

THROUGH

WORD 16

BIT	<u>DESIGNATION</u>		
0-1:	CONNECTIVITY:	QUALITY:	(QC121)
14-15	CONNECTIVITY	QUALITY	(QC128)

NOTE: COMMUNICANT STATUS WORDS 1-16 CONTAIN (UP TO) 64 OR 128
CONNECTIVITY QUALITIES. EACH CONNECTIVITY QUALITY IS BASED UPON
ERASURE COUNTS. IF THE NCS REPORTING INTERVAL IS 64 SLOTS, ONLY
THE FIRST 8 WORDS ARE VALID; OTHERWISE ALL 16 WORDS ARE VALID.

40.5.24	Navy	Statu	<u>s</u> .	(Bloc	k 29) –	NAVY	SHIE	BOARI) AN	D NA	VY A	IRBO	RNE	ONLY	
	15 14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	
wd 1	CONTROL W	ORD (SE	E 40.	5.1.1)												
wd 2	ADDRESS W	ADDRESS WORD (SEE 40.5.1.2)														
wd 3	COMMUNICA	COMMUNICATION AND TSR DATA MSG BUFFER STATUS														
wd 4	SICP BUFF	SICP BUFFER STATUS WORD														
wd 5	TARGET SO	RTING E	UFFER	STATU	S (<u>NAV</u>	Y AIR	ONLY)									
wd 6	TARGET SO	TARGET SORTING GROUP B PRIORITY STATUS (<u>NAVY AIR ONLY</u>)														
wd 7	TARGET SO	RTING G	ROUP I	B ROUT	INE ST	ATUS	(NAVY A	IR ON	<u>LY</u>)							
wd 8	TARGET SO	CARGET SORTING GROUP B ROUTINE STATUS (NAVY AIR ONLY) CARGET SORTING GROUP B PENDING STATUS (NAVY AIR ONLY)														
wd 9	TARGET SC	TARGET SORTING GROUP A PRIORITY STATUS (NAVY AIR ONLY)														
wd 10	TARGET SC	ARGET SORTING GROUP A PRIORITY STATUS (NAVY AIR ONLY) ARGET SORTING GROUP A ROUTINE STATUS (NAVY AIR ONLY)														
wd 11	TARGET SO	RTING G	ROUP A	A PEND	ING ST	ATUS	(NAVY A	IR ON	<u>LY</u>)							
wd 12	NOT USED															
wd 13	NOT USED															
wd 14	NOT USED															
wd 15	NOT USED															
wd 16	NOT USED															
wd 17	NOT USED															
wd 18	NOT USED															
wd 19	NOT USED															
wd 20	NOT USED															
wd 21	NOT USED															
wd 22	NOT USED															
wd 23	NOT USED															
wd 24	NOT USED															
wd 25	NOT USED															
wd 26	NOT USED															
wd 27	NOT USED															
wd 28	NOT USED															
wd 29	NOT USED															
wd 30	NOT USED															
wd 31	NOT USED															
wd 32	NOT USED															

40.5.24.1 <u>Communication and TSR Data Message Buffer Status</u>. (Block 29, Word 3) - NAVY SHIPBOARD AND NAVY AIRBORNE ONLY

	MSB														I	ıSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 3	L T T I	R I	L T T I	L T T I P	L T T I M									MES		Ξ

The bit designation shall be as follows:

BIT	DESIGNATION
0-5	TSR DATA MESSAGE BUFFER STATUS. NUMBER OF BUFFERS AVAILABLE IN THE SICP FOR MESSAGES ON THE TSR NPG. RANGE: 0 - 60 61 - 63 NOT USED
6-10	NOT USED
11	LONG TERM TRANSMIT INHIBIT FROM MUX (LTTIM) LOGIC 1 = LONG TERM TRANSMIT INHIBIT ACTIVATED FROM HOST BY TERMINAL INPUT MESSAGE 16 OR INITIALIZATION BLOCK 56 NAVY SHIPBOARD ONLY
12	LONG TERM TRANSMIT INHIBIT FROM PANEL (LTTIP) LOGIC 1 = LONG TERM TRANSMIT INHIBIT ACTIVATED FROM ICP OR SACP NAVY SHIPBOARD ONLY
13	LONG TERM TRANSMIT INHIBIT FROM DISCRETE (LTTID) LOGIC 1 = LONG TERM TRANSMIT INHIBIT ACTIVATED FROM DISCRETE NAVY SHIPBOARD ONLY
14	RELAY INHIBIT STATUS (RI) LOGIC 1 = RELAY INHIBIT IS IN EFFECT
15	LONG TERM TRANSMIT INHIBIT (LTTI) LOGIC 1 = LONG TERM TRANSMIT INHIBIT IS IN EFFECT

40.5.24.2 <u>SICP Buffer Status Word</u>. (Block 29, Word 4) - NAVY SHIPBOARD AND NAVY AIRBORNE ONLY

	MSB														I	JSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 4				BU3					BU2					BU1		

The bit designation shall be as follows:

BIT DESIGNATION

0-4 BUFFER ONE STATUS (BU1)

RANGE: 0 - 20

VALUES 21 - 31 ARE NOT USED.

NUMBER OF BUFFERS AVAILABLE IN THE SICP FOR MESSAGES ON THE FIRST HOST-DEFINED NPG (SEE 30.4.12.11).

5-9 BUFFER TWO STATUS (BU2)

RANGE: 0 - 20

VALUES 21 - 31 ARE NOT USED.

NUMBER OF BUFFERS AVAILABLE IN THE SICP FOR MESSAGES ON THE SECOND HOST-DEFINED NPG (SEE 30.4.12.12).

10-14 BUFFER THREE STATUS (BU3)

RANGE: 0 - 20

VALUES 21 - 31 ARE NOT USED.

NUMBER OF BUFFERS AVAILABLE IN THE SICP FOR THE THIRD

HOST-DEFINED NPG. (SEE 30.4.12.2)

15 NOT USED

40.5.24.3 <u>Target Sorting Buffer Status</u>. (Block 29, Word 5)

NAVY AIR ONLY

	MSB]	LSB
	15	14	13	12	11	10	9	8	7	9	5	4	3	2	1	0
wd 5		BUFF B											BUF	F A		

The bit designation shall be as follows:

BIT DESIGNATION

0-5 NUMBER OF TARGET SORTING GROUP A BUFFERS AVAILABLE (BUFF

A) - NAVY AIR ONLY

RANGE: 0 - 40

VALUES 41 - 63 ARE NOT USED

6-11 NUMBER OF TARGET SORTING GROUP B BUFFERS AVAILABLE (BUFF

B) - NAVY AIR ONLY

RANGE: 0 - 40

VALUES 41 - 63 ARE NOT USED

12-15 SPARE

40.5.24.4 <u>Target Sorting Group B Priority Status</u>. (Block 29, Word 6)

NAVY Z	AIR (YLINC
--------	-------	-------

		MSE	3														LSB
		15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd	6													BUFF	BPR		

The bit designation shall be as follows:

BIT DESIGNATION

0-5 NUMBER OF TRACKS IN TARGET SORTING GROUP B PRIORITY

LIST (BUFFBPR) - <u>NAVY AIR ONLY</u>

RANGE: 0 - 40

6-15 SPARE

40.5.24.5 Target Sorting Group B Routine Status. (Block 29, Word 7)

NAVY AIR ONLY

	MSB														I	SB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 7													BUF	FBR		

The bit designation shall be as follows:

BIT DESIGNATION

0-5 NUMBER OF TRACKS IN TARGET SORTING GROUP B ROUTINE

LIST (BUFFBR) - NAVY AIR ONLY

RANGE: 0 - 40

6-15 SPARE

40.5.24.6 <u>Target Sorting Group B Pending Status</u>. (Block 29, Word 8)

NAVY AIR ONLY

	MSB														L	SB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 8													BUFF	BPE		

The bit designation shall be as follows:

BIT DESIGNATION

0-5 NUMBER OF TRACKS IN TARGET SORTING GROUP B PENDING

LIST (BUFFBPE) - NAVY AIR ONLY

RANGE: 0 - 40

6-15 SPARE

40.5.24.7 Target Sorting Group A Priority Status. (Block 29, Word 9).

NAVY AIR ONLY

_		MSB														I	ıSB
		15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
	wd 9													BUFF	'APR		

The bit designation shall be as follows:

BIT DESIGNATION

0-5 NUMBER OF TRACKS IN TARGET SORTING GROUP A PRIORITY

LIST (BUFFAPR) - NAVY AIR ONLY

RANGE: 0 - 40

6-15 SPARE

40.5.24.8 <u>Target Sorting Group A Routine Status</u>. (Block 29, Word 10)

NAVY AIR ONLY

	MSE	3														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 10													BUF	FAR		

The bit designation shall be as follows:

BIT DESIGNATION

0-5 NUMBER OF TRACKS IN TARGET SORTING GROUP A ROUTINE

LIST (BUFFAR) - $\underline{\text{NAVY AIR ONLY}}$

RANGE: 0 - 40

6-15 SPARE

40.5.24.9 Target Sorting Group A Pending Status. (Block 29, Word 11)

NAVY AIR ONLY

	MSE	3														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 11													BUFF	TAPE		

The bit designation shall be as follows:

BIT DESIGNATION

0-5 NUMBER OF TRACKS IN TARGET SORTING GROUP A PENDING

LIST (BUFFAPE) - NAVY AIR ONLY

RANGE: 0 - 40

6-15 SPARE

40.5.25 <u>TSR Status Report Number 1</u>. (Block 30) - NAVY SHIPBOARD AND NAVY AIRBORNE ONLY

NAVY AI	IRBORNE ONLY
	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
wd 1	CONTROL WORD (SEE 40.5.1.1)
wd 2	ADDRESS WORD (SEE 40.5.1.2)
wd 3	TSR POOL 0, STATUS WORD 1
wd 4	TSR POOL 0, STATUS WORD 2
wd 5	TSR POOL 0, STATUS WORD 3
wd 6	TSR POOL 1, STATUS WORD 1
wd 7	TSR POOL 1, STATUS WORD 2
wd 8	TSR POOL 1, STATUS WORD 3
wd 9	TSR POOL 2, STATUS WORD 1
wd 10	TSR POOL 2, STATUS WORD 2
wd 11	TSR POOL 2, STATUS WORD 3
wd 12	TSR POOL 3, STATUS WORD 1
wd 13	TSR POOL 3, STATUS WORD 2
wd 14	TSR POOL 3, STATUS WORD 3
wd 15	TSR POOL 4, STATUS WORD 1
wd 16	TSR POOL 4, STATUS WORD 2
wd 17	TSR POOL 4, STATUS WORD 3
wd 18	TSR POOL 5, STATUS WORD 1
wd 19	TSR POOL 5, STATUS WORD 2
wd 20	TSR POOL 5, STATUS WORD 3
wd 21	TSR POOL 6, STATUS WORD 1
wd 22	TSR POOL 6, STATUS WORD 2
wd 23	TSR POOL 6, STATUS WORD 3
wd 24	TSR POOL 7, STATUS WORD 1
wd 25	TSR POOL 7, STATUS WORD 2
wd 26	TSR POOL 7, STATUS WORD 3
wd 27	NOT USED
wd 28	NOT USED
wd 29	NOT USED
wd 30	NOT USED
wd 31	NOT USED
wd 32	NOT USED

40.5.25.1 TSR Pool Status Words 1-3. (Block 30, Words 3-26). - NAVY SHIPBOARD AND NAVY AIRBORNE. These words specify TSR Status Words 1-3 for TSR pools 0-7. Status Words 1 and 2 are also reported for the operational pool, in TOM 1, Words 21 and 22 (see 80.1.4.8.2.1.2.16). TSR Status Word 4 for each pool is in Status Block 31 (see 80.1.3.11).

	MSE	3														LSB	
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	
statu s wd 1		POOL UMBE				REC.	EIVE	CO	UNT		S	STATI	₹.	P	ERIC)D	
statu s wd 2		PE	RCEN	TAGE	OF	POOL	USI	JSED PERCENTAGE OF REQUEST SATISFIED									
statu s wd 3											T	SR N	PG				

The bit designation shall be as follows:

STATUS WORD 1

BIT **DESIGNATION**

0 - 2TSR PERIOD NUMBER (PERIOD)

> THE CURRENT TSR PERIOD NUMBER, MODULO 8. THE NUMBERING OF THE PERIODS BEGINS WITH PERIOD 0 WHICH STARTS JUST AFTER MIDNIGHT (IF THE REALLOCATION PERIOD OFFSET, SEE 80.1.2.12.1, IS NON-ZERO) OR AT MIDNIGHT (IF THE REALLOCATION PERIOD OFFSET IS ZERO). RANGE = 0 TO 7

VALID IF NET TIME IS VALID (SEE TOM 1, 80.1.4.7.1) AND POOL STATE IS 2,3 OR 4.

BIT DESIGNATION

- 3-5 STATE OF THE POOL (STATE)
 - 0 = SUSPENDED
 - 1 = INACTIVE: BAD INIT DATA (SEE NOTE)
 - 2 = ACTIVE: ATTEMPTING POOL ENTRY; NO ALLOCATION OF SLOTS.
 - 3 = ACTIVE: MISSED ANNOUNCEMENT; THE TERMINAL IS ALLOCATING SLOTS TO ITSELF BUT WAS UNABLE TO TRANSMIT ITS OWN TSR ANNOUNCEMENT MESSAGE IN THE LAST PERIOD. NOT USED IN CENTRALIZED MODE.
 - 4 = FULLY ACTIVE
 - 5-7 = NOT USED
- 6-11 RECEIVE COUNT

THE NUMBER OF POOL PARTICIPANTS, EXCLUDING ITSELF, FOR WHICH THE TERMINAL HAS VALID DATA.

RANGE = 0 - 63

VALID IF POOL STATE IS 2,3 OR 4.

- 12 RESERVED FOR FUTURE USE.
- 13-15 POOL NUMBER (TSRPN)
 THIS VARIABLE IS NEEDED, WHEN TSR POOL STATUS WORDS 1 AND
 2 ARE REPORTED IN TOM 1, FOR IDENTIFICATION OF THE DATA.
 IN STATUS BLOCK 30 THIS VARIABLE IS REDUNDANT SINCE THE
 POOL NUMBER IS ALSO INDICATED BY THE WORD NUMBER WITHIN
 THE STATUS BLOCK.

NOTE: THE SICP DOES THE FOLLOWING VALIDITY CHECKS ON A TSR POOL:

- 1) ALL ACCESS 17, 18 SABs ON THE POOL HAVE THE SAME NPG.
- 2) NPG NOT EQUAL TO 1, 2, 3, 5, 6, 12, 13 OR 27.
- 3) THE NUMBER OF ACCESS 17 SABS IS 1, 2 OR 3.
- 4) THERE IS EXACTLY ONE ACCESS 18 SAB IF THE POOL IS NOT IN CENTRALIZED MODE OR AT MOST ONE ACCESS 18 SAB IF THE POOL IS IN CENTRALIZED MODE.
- 5) THE REALLOCATION PERIOD IS 6, 12, 18, 24, 30, 36 OR 48 SECONDS.
- 6) THE ACCESS 17 SABs CAN BE DECOMPOSED INTO 2-512 BASIC BLOCKS.

IF ANY OF THE ABOVE CHECKS FAIL, THE SICP SETS POOL STATE TO "INACTIVE: BAD INIT DATA".

STATUS WORD 2

BIT DESIGNATION

0-6 PERCENTAGE OF REQUEST SATISFIED

THE ALLOCATION TO THE TERMINAL FOR MISSION MESSAGES IN THE CURRENT PERIOD DIVIDED BY THE LAST HOST POOL CAPACITY REQUEST

REQUEST.

LSB: 100/127 OF A PERCENT RANGE: 0 TO 100 PERCENT

VALUES GREATER THAN 100 PERCENT ARE REPORTED AS 100.

VALID IF POOL STATE IS 3 OR 4

NOTE: 1) THIS VARIABLE IS COMPUTED AS:

((#BBs * q) - 1)/((H * W) / L)

where:

1. #Bbs = THE NUMBER OF BASIC BLOCKS CHOSEN FOR OWN TERMINAL AT PREVIOUS FREEZE POINT.

2. q = # SLOTS PER BASIC BLOCK

3. H = LATEST "NUMBER OF MESSAGES" (SEE INITIALIZATION BLOCK 44, CONTROL WORD 3, BITS 5-15) REQUEST FROM THE HOST.

4. W = LATEST "AVERAGE NUMBER OF WORDS PER MESSAGE" (SEE INITIALIZATION BLOCK 44, CONTROL WORD 3, BITS 0-4) REQUEST FROM THE HOST. IN THIS FORMULA, W IS IN ITS RAW (UNCODED) FORM.

5. L = # CODEWORDS (3,6 OR 12) ALLOWED BY THE PACKING LIMIT OF THE TSR NPG.

NOTE: 2) IF THE HOST REQUEST IS 0 AND THE TERMINAL HAS BEEN ALLOCATED SLOTS, THE TERMINAL WILL REPORT THIS VARIABLE AS 100 PERCENT.

NOTE: 3) IF THE TERMINAL HAS BEEN ALLOCATED NO SLOTS (INCLUDING THE CASE WHEN POOL STATE = 2) THE TERMINAL WILL REPORT THIS VARIABLE AS 0.

7 SPARE

8-14 PERCENTAGE OF POOL USED

THE SUM OF ALL THE VALID REQUESTS KNOWN TO THE TERMINAL, IN UNITS OF BASIC BLOCKS, DIVIDED BY THE POOL SIZE.

LSB: 100/127 OF A PERCENT RANGE: 0 TO 100 PERCENT

VALUES GREATER THAN 100 PERCENT (INDICATING TRANSMIT

CONFLICTS) ARE REPORTED AS 100. VALID IF POOL STATE IS 2, 3 OR 4

15 SPARE

STATUS WORD 3

<u>BIT</u> <u>DESIGNATION</u>

0-8 TSR NPG

RANGE = 0 TO 511

NOTE: SET TO 0 WHEN POOL STATE IS 0 OR 1

9-15 SPARE

40.5.26 <u>UTM/UPS Own-Position Data</u>. (Block 31)

10.5.20	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
wd 1	CONTROL WORD (SEE 40.5.1.1)
wd 2	ADDRESS WORD (SEE 40.5.1.2)
wd 3	UTM/UPS OWN-POSITION WORD 1
wd 4	UTM/UPS OWN-POSITION WORD 2
wd 5	UTM/UPS OWN-POSITION WORD 3
wd 6	UTM/UPS OWN-POSITION WORD 4
wd 7	UTM/UPS OWN-POSITION WORD 5
wd 8	UTM/UPS OWN-POSITION WORD 6
wd 9	UTM/UPS OWN-POSITION WORD 7
wd 10	NOT USED
wd 11	NOT USED
wd 12	NOT USED
wd 13	NOT USED
wd 14	NOT USED
wd 15	NOT USED
wd 16	NOT USED
wd 17	NOT USED
wd 18	NOT USED
wd 19	NOT USED
wd 20	NOT USED
wd 21	NOT USED
wd 22	NOT USED
wd 23	NOT USED
wd 24	NOT USED
wd 25	NOT USED
wd 26	NOT USED
wd 27	NOT USED
wd 28	NOT USED
wd 29	NOT USED
wd 30	NOT USED
wd 31	NOT USED
wd 32	NOT USED

40.5.26.1 <u>UTM/UPS Own-Position Words</u>. (Block 31, Words 3-9). - ARMY ONLY

The format for the UTM/UPS own-position Words 1-7 shall be identical to the requested position UTM coordinate Words 1-7 (Block 24).

40.5.27 <u>TSR Basic Blocks Selected Number 1 (Own Terminal)</u>. (Block 32) - NAVY SHIPBOARD AND NAVY AIRBORNE ONLY

HIPBOARD	AND NAVY AIRBORNE ONLY
	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
wd 1	CONTROL WORD (SEE 40.5.1.1)
wd 2	ADDRESS WORD (SEE 40.5.1.2)
wd 3	BASIC BLOCKS SELECTED WORD 1
wd 4	BASIC BLOCKS SELECTED WORD 2
wd 5	BASIC BLOCKS SELECTED WORD 3
wd 6	BASIC BLOCKS SELECTED WORD 4
wd 7	BASIC BLOCKS SELECTED WORD 5
wd 8	BASIC BLOCKS SELECTED WORD 6
wd 9	BASIC BLOCKS SELECTED WORD 7
wd 10	BASIC BLOCKS SELECTED WORD 8
wd 11	BASIC BLOCKS SELECTED WORD 9
wd 12	BASIC BLOCKS SELECTED WORD 10
wd 13	BASIC BLOCKS SELECTED WORD 11
wd 14	BASIC BLOCKS SELECTED WORD 12
wd 15	BASIC BLOCKS SELECTED WORD 13
wd 16	BASIC BLOCKS SELECTED WORD 14
wd 17	BASIC BLOCKS SELECTED WORD 15
wd 18	BASIC BLOCKS SELECTED WORD 16
wd 19	BASIC BLOCKS SELECTED WORD 17
wd 20	BASIC BLOCKS SELECTED WORD 18
wd 21	BASIC BLOCKS SELECTED WORD 19
wd 22	BASIC BLOCKS SELECTED WORD 20
wd 23	BASIC BLOCKS SELECTED WORD 21
wd 24	BASIC BLOCKS SELECTED WORD 22
wd 25	BASIC BLOCKS SELECTED WORD 23
wd 26	BASIC BLOCKS SELECTED WORD 24
wd 27	BASIC BLOCKS SELECTED WORD 25
wd 28	BASIC BLOCKS SELECTED WORD 26
wd 29	BASIC BLOCKS SELECTED WORD 27
wd 30	BASIC BLOCKS SELECTED WORD 28
wd 31	BASIC BLOCKS SELECTED WORD 29
wd 32	BASIC BLOCKS SELECTED WORD 30

NOTE: STATUS BLOCK 32-35 ARE RESERVED FOR SOFTWARE TESTING STATUS BLOCK 32

40.5.27.1 <u>Basic Blocks Selected Words (Own Terminal)</u>. (Block 32, Words 3-32). <u>Reserved for test purposes</u>. - NAVY SHIPBOARD AND NAVY AIRBORNE ONLY

15	7111	1 1		1			1				1			1			
wd 4 31 16 wd 5 47 32 wd 6 63 48 wd 7 79 64 wd 8 95 80 wd 9 111 96 wd 10 127 112 wd 11 143 128 wd 12 159 144 wd 13 175 160 wd 14 191 176 wd 15 207 192 wd 16 223 208 wd 17 239 224 wd 18 255 240 wd 20 287 272 wd 21 303 288 wd 22 319 304 wd 23 335 320 wd 24 351 336 wd 25 367 352 wd 26 383 368 wd 27 399 384 wd 29 431 416 wd 30 447 432 wd 31 463 448		15	14	1.3	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 5 47 32 wd 6 63 48 wd 7 79 64 wd 8 95 80 wd 9 111 96 wd 10 127 112 wd 11 143 128 wd 12 159 144 wd 13 175 160 wd 14 191 176 wd 15 207 192 wd 16 223 208 wd 17 239 224 wd 18 255 240 wd 19 271 256 wd 20 287 272 wd 21 303 288 wd 22 319 304 wd 23 335 320 wd 24 351 336 wd 25 367 352 wd 26 383 368 wd 27 399 384 wd 29 431 416 wd 30 447 432 wd 31 463 448	wd 3	15											0				
wd 6 63 48 wd 7 79 64 wd 8 95 80 wd 9 111 96 wd 10 127 112 wd 11 143 128 wd 12 159 144 wd 13 175 160 wd 14 191 176 wd 15 207 192 wd 16 223 208 wd 17 239 224 wd 18 255 240 wd 19 271 256 wd 20 287 272 wd 21 303 288 wd 22 319 304 wd 23 335 320 wd 24 351 336 wd 25 367 352 wd 26 383 368 wd 27 399 384 wd 29 431 446 wd 30 447 432 wd 31 463 448	wd 4	31											16				
wd 7 79 64 wd 8 95 80 wd 9 111 96 wd 10 127 112 wd 11 143 128 wd 12 159 144 wd 13 175 160 wd 14 191 176 wd 15 207 192 wd 16 223 208 wd 17 239 224 wd 18 255 240 wd 19 271 256 wd 20 287 272 wd 21 303 288 wd 22 319 304 wd 23 335 320 wd 24 351 336 wd 25 367 352 wd 26 383 368 wd 27 399 384 wd 28 415 400 wd 29 431 416 wd 30 447 432 wd 31 463 448	wd 5	47										:	32				
wd 8 95 80 wd 9 111 96 wd 10 127 112 wd 11 143 128 wd 12 159 144 wd 13 175 160 wd 14 191 176 wd 15 207 192 wd 16 223 208 wd 17 239 224 wd 18 255 240 wd 19 271 256 wd 20 287 272 wd 21 303 288 wd 22 319 304 wd 23 335 320 wd 24 351 336 wd 25 367 352 wd 26 383 368 wd 27 399 384 wd 28 415 400 wd 29 431 416 wd 30 447 432 wd 31 463 448	wd 6	63											48				
wd 9 111 96 wd 10 127 112 wd 11 143 128 wd 12 159 144 wd 13 175 160 wd 14 191 176 wd 15 207 192 wd 16 223 208 wd 17 239 224 wd 18 255 240 wd 19 271 256 wd 20 287 272 wd 21 303 288 wd 22 319 304 wd 23 335 320 wd 24 351 336 wd 25 367 352 wd 26 383 368 wd 27 399 384 wd 28 415 400 wd 29 431 416 wd 30 447 432 wd 31 463 448	wd 7	79										(54				
wd 10 127 112 wd 11 143 128 wd 12 159 144 wd 13 175 160 wd 14 191 176 wd 15 207 192 wd 16 223 208 wd 17 239 224 wd 18 255 240 wd 19 271 256 wd 20 287 272 wd 21 303 288 wd 22 319 304 wd 23 335 320 wd 24 351 336 wd 25 367 352 wd 26 383 368 wd 27 399 384 wd 28 415 400 wd 29 431 416 wd 30 447 432 wd 31 463 448	wd 8	95										;	30				
wd 11 143 128 wd 12 159 144 wd 13 175 160 wd 14 191 176 wd 15 207 192 wd 16 223 208 wd 17 239 224 wd 18 255 240 wd 19 271 256 wd 20 287 272 wd 21 303 288 wd 22 319 304 wd 23 335 320 wd 24 351 336 wd 25 367 352 wd 26 383 368 wd 27 399 384 wd 28 415 400 wd 29 431 416 wd 30 447 432 wd 31 463 448	wd 9	111										!	96				
wd 12 159 144 wd 13 175 160 wd 14 191 176 wd 15 207 192 wd 16 223 208 wd 17 239 224 wd 18 255 240 wd 19 271 256 wd 20 287 272 wd 21 303 288 wd 22 319 304 wd 23 335 320 wd 24 351 336 wd 25 367 352 wd 26 383 368 wd 27 399 384 wd 28 415 400 wd 29 431 416 wd 30 447 432 wd 31 463 448	wd 10	127										1:	12				
wd 13 175 160 wd 14 191 176 wd 15 207 192 wd 16 223 208 wd 17 239 224 wd 18 255 240 wd 19 271 256 wd 20 287 272 wd 21 303 288 wd 22 319 304 wd 23 335 320 wd 24 351 336 wd 25 367 352 wd 26 383 368 wd 27 399 384 wd 28 415 400 wd 29 431 416 wd 30 447 432 wd 31 463 448	wd 11	143										1:	28				
wd 14 191 176 wd 15 207 192 wd 16 223 208 wd 17 239 224 wd 18 255 240 wd 19 271 256 wd 20 287 272 wd 21 303 288 wd 22 319 304 wd 23 335 320 wd 24 351 336 wd 25 367 352 wd 26 383 368 wd 27 399 384 wd 28 415 400 wd 29 431 416 wd 30 447 432 wd 31 463 448	wd 12	159										1	44				
wd 15 207 192 wd 16 223 208 wd 17 239 224 wd 18 255 240 wd 19 271 256 wd 20 287 272 wd 21 303 288 wd 22 319 304 wd 23 335 320 wd 24 351 336 wd 25 367 352 wd 26 383 368 wd 27 399 384 wd 28 415 400 wd 29 431 416 wd 30 447 432 wd 31 463 448	wd 13	175										1	50				
wd 16 223 208 wd 17 239 224 wd 18 255 240 wd 19 271 256 wd 20 287 272 wd 21 303 288 wd 22 319 304 wd 23 335 320 wd 24 351 336 wd 25 367 352 wd 26 383 368 wd 27 399 384 wd 28 415 400 wd 29 431 416 wd 30 447 432 wd 31 463 448	wd 14	191										1'	76				
wd 17 239 224 wd 18 255 240 wd 19 271 256 wd 20 287 272 wd 21 303 288 wd 22 319 304 wd 23 335 320 wd 24 351 336 wd 25 367 352 wd 26 383 368 wd 27 399 384 wd 28 415 400 wd 29 431 416 wd 30 447 432 wd 31 463 448	wd 15	207										1:	92				
wd 18 255 240 wd 19 271 256 wd 20 287 272 wd 21 303 288 wd 22 319 304 wd 23 335 320 wd 24 351 336 wd 25 367 352 wd 26 383 368 wd 27 399 384 wd 28 415 400 wd 29 431 416 wd 30 447 432 wd 31 463 448	wd 16	223										2	08				
wd 19 271 256 wd 20 287 272 wd 21 303 288 wd 22 319 304 wd 23 335 320 wd 24 351 336 wd 25 367 352 wd 26 383 368 wd 27 399 384 wd 28 415 400 wd 29 431 416 wd 30 447 432 wd 31 463 448	wd 17	239										2	24				
wd 20 287 wd 21 303 wd 22 319 wd 23 335 wd 24 351 wd 25 367 wd 26 383 wd 27 399 wd 28 415 wd 29 431 wd 30 447 wd 31 463	wd 18	255										2	40				
wd 21 303 288 wd 22 319 304 wd 23 335 320 wd 24 351 336 wd 25 367 352 wd 26 383 368 wd 27 399 384 wd 28 415 400 wd 29 431 416 wd 30 447 432 wd 31 463 448	wd 19	271										2	56				
wd 22 319 304 wd 23 335 320 wd 24 351 336 wd 25 367 352 wd 26 383 368 wd 27 399 384 wd 28 415 400 wd 29 431 416 wd 30 447 432 wd 31 463 448	wd 20	287										2'	72				
wd 23 335 320 wd 24 351 336 wd 25 367 352 wd 26 383 368 wd 27 399 384 wd 28 415 400 wd 29 431 416 wd 30 447 432 wd 31 463 448	wd 21	303										2	38				
wd 24 351 336 wd 25 367 352 wd 26 383 368 wd 27 399 384 wd 28 415 400 wd 29 431 416 wd 30 447 432 wd 31 463 448	wd 22	319										31	04				
wd 25 367 352 wd 26 383 368 wd 27 399 384 wd 28 415 400 wd 29 431 416 wd 30 447 432 wd 31 463 448	wd 23	335										3:	20				
wd 26 383 368 wd 27 399 384 wd 28 415 400 wd 29 431 416 wd 30 447 432 wd 31 463 448	wd 24	351										3	36				
wd 27 399 384 wd 28 415 400 wd 29 431 416 wd 30 447 432 wd 31 463 448	wd 25	367										3	52				
wd 28 415 400 wd 29 431 416 wd 30 447 432 wd 31 463 448	wd 26	383										3	58				
wd 29 431 416 wd 30 447 432 wd 31 463 448	wd 27	399										3	34				
wd 30 447 432 wd 31 463 448	wd 28	415										4	00				
wd 31 463 448	wd 29	431										4	16				
	wd 30	447										4	32				
wd 32 479 464	wd 31	463										4	48				
	wd 32	479										4	54				

NOTES FOR THIS BLOCK ARE ON FOLLOWING PAGE.

Coding for each bit (each bit corresponds to a Basic Block in the TSR Pool):

LOGIC 0 = Basic Block not selected for own terminal transmit LOGIC 1 = Basic Block was selected for own terminal transmit

Note: These words are updated at the end of slot selection processing. They are valid if pool state is 3 ("Active-Missed Announcement") or 4 ("Fully Active").

40.5.28 TSR Basic Blocks Selected Number 2 (Own Terminal). (Block 33).

15	Reserved f	or test purposes NAVY SHIPBOARD AND NAVY AIRBORNE ONLY
wd 2 ADDRESS WORD (SEE 40.5.1.2) wd 3 BASIC BLOCKS SELECTED WORD 31 wd 4 BASIC BLOCKS SELECTED WORD 32 wd 5 MAXIMUM TSR EXECUTIVE EXECUTION TIME wd 6 NUMBER OF TSR EXECUTIVE EXECUTION TIMES EXCEEDING 4 SLOTS wd 7 SLOT ALLOCATION DEGRADED OPERATION wd 8 TSR I PARAMETER wd 9 TSR K PARAMETER wd 10 TSR N PARAMETER wd 11 NOT USED wd 12 NOT USED wd 13 NOT USED wd 14 NOT USED wd 15 NOT USED wd 16 NOT USED wd 17 NOT USED wd 18 NOT USED wd 19 NOT USED wd 20 NOT USED wd 21 NOT USED wd 22 NOT USED wd 23 NOT USED wd 24 NOT USED wd 25 NOT USED wd 26 NOT USED wd 27 NOT USED wd 27 NOT USED wd 28 NOT USED wd 29 NOT USED		15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
wd 3 BASIC BLOCKS SELECTED WORD 31 wd 4 BASIC BLOCKS SELECTED WORD 32 wd 5 MAXIMUM TSR EXECUTIVE EXECUTION TIME wd 6 NUMBER OF TSR EXECUTIVE EXECUTION TIMES EXCEEDING 4 SLOTS wd 7 SLOT ALLOCATION DEGRADED OPERATION wd 8 TSR I PARAMETER wd 9 TSR K PARAMETER wd 10 TSR N PARAMETER wd 11 NOT USED wd 12 NOT USED wd 13 NOT USED wd 14 NOT USED wd 15 NOT USED wd 16 NOT USED wd 17 NOT USED wd 18 NOT USED wd 19 NOT USED wd 20 NOT USED wd 21 NOT USED wd 22 NOT USED wd 23 NOT USED wd 24 NOT USED wd 25 NOT USED wd 26 NOT USED wd 27 NOT USED wd 28 NOT USED wd 29 NOT USED	wd 1	CONTROL WORD (SEE 40.5.1.1)
wd 4 BASIC BLOCKS SELECTED WORD 32 wd 5 MAXIMUM TSR EXECUTIVE EXECUTION TIME wd 6 NUMBER OF TSR EXECUTIVE EXECUTION TIMES EXCEEDING 4 SLOTS wd 7 SLOT ALLOCATION DEGRADED OPERATION wd 8 TSR I PARAMETER wd 9 TSR K PARAMETER wd 10 TSR N PARAMETER wd 11 NOT USED wd 12 NOT USED wd 13 NOT USED wd 14 NOT USED wd 15 NOT USED wd 16 NOT USED wd 17 NOT USED wd 18 NOT USED wd 19 NOT USED wd 20 NOT USED wd 21 NOT USED wd 22 NOT USED wd 23 NOT USED wd 24 NOT USED wd 25 NOT USED wd 26 NOT USED wd 27 NOT USED wd 28 NOT USED wd 29 NOT USED wd 29 NOT USED	wd 2	ADDRESS WORD (SEE 40.5.1.2)
wd 5 MAXIMUM TSR EXECUTIVE EXECUTION TIME wd 6 NUMBER OF TSR EXECUTIVE EXECUTION TIMES EXCEEDING 4 SLOTS wd 7 SLOT ALLOCATION DEGRADED OPERATION wd 8 TSR I PARAMETER wd 9 TSR K PARAMETER wd 10 TSR N PARAMETER wd 11 NOT USED wd 12 NOT USED wd 13 NOT USED wd 14 NOT USED wd 15 NOT USED wd 16 NOT USED wd 17 NOT USED wd 18 NOT USED wd 19 NOT USED wd 20 NOT USED wd 21 NOT USED wd 22 NOT USED wd 24 NOT USED wd 25 NOT USED wd 26 NOT USED wd 27 NOT USED wd 28 NOT USED wd 29 NOT USED wd 29 NOT USED	wd 3	BASIC BLOCKS SELECTED WORD 31
wd 6 NUMBER OF TSR EXECUTIVE EXECUTION TIMES EXCEEDING 4 SLOTS wd 7 SLOT ALLOCATION DEGRADED OPERATION wd 8 TSR I PARAMETER wd 9 TSR K PARAMETER wd 10 TSR N PARAMETER wd 11 NOT USED wd 12 NOT USED wd 13 NOT USED wd 14 NOT USED wd 15 NOT USED wd 16 NOT USED wd 17 NOT USED wd 18 NOT USED wd 19 NOT USED wd 20 NOT USED wd 21 NOT USED wd 22 NOT USED wd 23 NOT USED wd 24 NOT USED wd 25 NOT USED wd 26 NOT USED wd 27 NOT USED wd 28 NOT USED wd 29 NOT USED wd 29 NOT USED	wd 4	BASIC BLOCKS SELECTED WORD 32
wd 7 SLOT ALLOCATION DEGRADED OPERATION wd 8 TSR I PARAMETER wd 9 TSR K PARAMETER wd 10 TSR N PARAMETER wd 11 NOT USED wd 12 NOT USED wd 13 NOT USED wd 14 NOT USED wd 15 NOT USED wd 16 NOT USED wd 17 NOT USED wd 18 NOT USED wd 19 NOT USED wd 19 NOT USED wd 20 NOT USED wd 21 NOT USED wd 22 NOT USED wd 23 NOT USED wd 24 NOT USED wd 25 NOT USED wd 26 NOT USED wd 27 NOT USED wd 28 NOT USED wd 29 NOT USED	wd 5	MAXIMUM TSR EXECUTIVE EXECUTION TIME
wd 8 TSR I PARAMETER wd 9 TSR K PARAMETER wd 10 TSR N PARAMETER wd 11 NOT USED wd 12 NOT USED wd 14 NOT USED wd 15 NOT USED wd 16 NOT USED wd 18 NOT USED wd 19 NOT USED wd 20 NOT USED wd 21 NOT USED wd 22 NOT USED wd 23 NOT USED wd 24 NOT USED wd 25 NOT USED wd 26 NOT USED wd 27 NOT USED wd 28 NOT USED wd 29 NOT USED wd 30 NOT USED	wd 6	NUMBER OF TSR EXECUTIVE EXECUTION TIMES EXCEEDING 4 SLOTS
wd 9 TSR K PARAMETER wd 10 TSR N PARAMETER wd 11 NOT USED wd 12 NOT USED wd 13 NOT USED wd 15 NOT USED wd 16 NOT USED wd 17 NOT USED wd 18 NOT USED wd 20 NOT USED wd 21 NOT USED wd 22 NOT USED wd 23 NOT USED wd 24 NOT USED wd 25 NOT USED wd 26 NOT USED wd 27 NOT USED wd 28 NOT USED wd 29 NOT USED wd 30 NOT USED	wd 7	SLOT ALLOCATION DEGRADED OPERATION
wd 10 TSR N PARAMETER wd 11 NOT USED wd 12 NOT USED wd 13 NOT USED wd 14 NOT USED wd 15 NOT USED wd 16 NOT USED wd 17 NOT USED wd 18 NOT USED wd 20 NOT USED wd 21 NOT USED wd 22 NOT USED wd 23 NOT USED wd 24 NOT USED wd 25 NOT USED wd 26 NOT USED wd 27 NOT USED wd 28 NOT USED wd 29 NOT USED wd 30 NOT USED	wd 8	TSR I PARAMETER
wd 11 NOT USED wd 13 NOT USED wd 14 NOT USED wd 15 NOT USED wd 16 NOT USED wd 17 NOT USED wd 18 NOT USED wd 20 NOT USED wd 21 NOT USED wd 22 NOT USED wd 23 NOT USED wd 24 NOT USED wd 25 NOT USED wd 26 NOT USED wd 27 NOT USED wd 28 NOT USED wd 29 NOT USED wd 30 NOT USED	wd 9	TSR K PARAMETER
wd 12 NOT USED wd 13 NOT USED wd 14 NOT USED wd 15 NOT USED wd 16 NOT USED wd 17 NOT USED wd 19 NOT USED wd 20 NOT USED wd 21 NOT USED wd 22 NOT USED wd 23 NOT USED wd 24 NOT USED wd 25 NOT USED wd 26 NOT USED wd 27 NOT USED wd 29 NOT USED wd 29 NOT USED wd 30 NOT USED	wd 10	TSR N PARAMETER
wd 14 NOT USED wd 15 NOT USED wd 16 NOT USED wd 17 NOT USED wd 18 NOT USED wd 19 NOT USED wd 20 NOT USED wd 21 NOT USED wd 22 NOT USED wd 23 NOT USED wd 24 NOT USED wd 25 NOT USED wd 26 NOT USED wd 27 NOT USED wd 28 NOT USED wd 29 NOT USED wd 30 NOT USED	wd 11	NOT USED
wd 14 NOT USED wd 15 NOT USED wd 16 NOT USED wd 17 NOT USED wd 18 NOT USED wd 20 NOT USED wd 21 NOT USED wd 22 NOT USED wd 23 NOT USED wd 24 NOT USED wd 25 NOT USED wd 26 NOT USED wd 27 NOT USED wd 28 NOT USED wd 29 NOT USED wd 30 NOT USED	wd 12	NOT USED
wd 15 NOT USED wd 16 NOT USED wd 17 NOT USED wd 18 NOT USED wd 19 NOT USED wd 20 NOT USED wd 21 NOT USED wd 22 NOT USED wd 23 NOT USED wd 24 NOT USED wd 25 NOT USED wd 26 NOT USED wd 27 NOT USED wd 28 NOT USED wd 29 NOT USED wd 30 NOT USED	wd 13	NOT USED
wd 16 NOT USED wd 17 NOT USED wd 18 NOT USED wd 19 NOT USED wd 20 NOT USED wd 21 NOT USED wd 22 NOT USED wd 23 NOT USED wd 24 NOT USED wd 25 NOT USED wd 26 NOT USED wd 27 NOT USED wd 28 NOT USED wd 29 NOT USED wd 30 NOT USED	wd 14	NOT USED
wd 17 NOT USED wd 18 NOT USED wd 19 NOT USED wd 20 NOT USED wd 21 NOT USED wd 22 NOT USED wd 23 NOT USED wd 24 NOT USED wd 25 NOT USED wd 26 NOT USED wd 27 NOT USED wd 28 NOT USED wd 29 NOT USED wd 30 NOT USED	wd 15	NOT USED
wd 18 NOT USED wd 19 NOT USED wd 20 NOT USED wd 21 NOT USED wd 22 NOT USED wd 23 NOT USED wd 24 NOT USED wd 25 NOT USED wd 26 NOT USED wd 27 NOT USED wd 28 NOT USED wd 29 NOT USED wd 30 NOT USED	wd 16	NOT USED
wd 19 NOT USED wd 20 NOT USED wd 21 NOT USED wd 22 NOT USED wd 23 NOT USED wd 24 NOT USED wd 25 NOT USED wd 26 NOT USED wd 27 NOT USED wd 28 NOT USED wd 29 NOT USED wd 30 NOT USED	wd 17	NOT USED
wd 20 NOT USED wd 21 NOT USED wd 22 NOT USED wd 23 NOT USED wd 24 NOT USED wd 25 NOT USED wd 26 NOT USED wd 27 NOT USED wd 28 NOT USED wd 29 NOT USED wd 30 NOT USED	wd 18	NOT USED
wd 21 NOT USED wd 22 NOT USED wd 23 NOT USED wd 24 NOT USED wd 25 NOT USED wd 26 NOT USED wd 27 NOT USED wd 28 NOT USED wd 29 NOT USED wd 30 NOT USED	wd 19	NOT USED
wd 22 NOT USED wd 23 NOT USED wd 24 NOT USED wd 25 NOT USED wd 26 NOT USED wd 27 NOT USED wd 28 NOT USED wd 29 NOT USED wd 30 NOT USED	wd 20	NOT USED
wd 23 NOT USED wd 24 NOT USED wd 25 NOT USED wd 26 NOT USED wd 27 NOT USED wd 28 NOT USED wd 29 NOT USED wd 30 NOT USED	wd 21	NOT USED
wd 24 NOT USED wd 25 NOT USED wd 26 NOT USED wd 27 NOT USED wd 28 NOT USED wd 29 NOT USED wd 30 NOT USED	wd 22	NOT USED
wd 25 NOT USED wd 26 NOT USED wd 27 NOT USED wd 28 NOT USED wd 29 NOT USED wd 30 NOT USED	wd 23	NOT USED
wd 26 NOT USED wd 27 NOT USED wd 28 NOT USED wd 29 NOT USED wd 30 NOT USED	wd 24	NOT USED
wd 27 NOT USED wd 28 NOT USED wd 29 NOT USED wd 30 NOT USED	wd 25	NOT USED
wd 28 NOT USED wd 29 NOT USED wd 30 NOT USED	wd 26	NOT USED
wd 29 NOT USED wd 30 NOT USED	wd 27	NOT USED
wd 30 NOT USED	wd 28	NOT USED
	wd 29	NOT USED
wd 31 NOT USED	wd 30	NOT USED
	wd 31	NOT USED
wd 32 NOT USED	wd 32	NOT USED

NOTE: STATUS BLOCK 32-35 ARE RESERVED FOR SOFTWARE TESTING

40.5.28.1 <u>Basic Block Selected Words (Own Terminal).</u> (Block 33, words 3-4). - NAVY SHIPBOARD AND NAVY AIRBORNE ONLY

	MSB]	LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 3	495	5													4	80
wd 4	511	L													4	96

The bit designation shall be as follows:

<u>BIT</u> <u>DESIGNATION</u>

0-15 LOGIC 0 = BASIC BLOCK NOT SELECTED FOR TERMINAL TRANSMIT.

LOGIC 1 = BASIC BLOCK WAS SELECTED FOR TERMINAL TRANSMIT.

THESE WORDS ARE VALID IF POOL STATE IS 3 ("ACTIVE-MISSED ANNOUNCEMENT") OR 4 ("FULLY ACTIVE").

40.5.28.2 Maximum TSR Executive Execution Time. (Block 33, Word 5) - NAVY SHIPBOARD AND NAVY AIRBORNE ONLY

BIT DESIGNATION

0-15 MAXIMUM NUMBER OF SLOTS THAT THE TSR EXECUTIVE MODULE HAS TAKEN TO RUN

0 = MAXIMUM IS 4, THE NOMINAL VALUE, OR LESS

1-4 = NOT USED

5-32767 = MAXIMUM NUMBER OF SLOTS

40.5.28.3 <u>Number of TSR Executive Execution Times Exceeding Four Slots.</u> (Block 33, Word 6) - NAVY SHIPBOARD AND NAVY AIRBORNE ONLY

BIT DESIGNATION

- 0-15 NUMBER OF TIMES THAT THE TSR EXECUTIVE TOOK MORE THAN 4 SLOTS TO RUN
- 40.5.28.4 Slot Allocation Degraded Operation. (Block 33, Word 7) NAVY SHIPBOARD AND NAVY AIRBORNE ONLY

BIT DESIGNATION

- 0-14 NOT USED
- 15 SLOT ALLOCATION PROCESSING DEGRADED OPERATION (SADO)
 LOGIC 1 = SLOT ALLOCATION PROCESSING FOR THE CURRENT PERIOD
 DID NOT FINISH PRIOR TO THE START OF THE PERIOD.
 TSR TRANSMIT SLOTS FOR THE TERMINAL MAY HAVE BEEN
 LOST.

NOTE: THIS BIT IS LATCHED BY THE SICP UNTIL THE POOL IS SUSPENDED.

40.5.28.5 <u>TSR I Parameter (Block 33, Word 8).</u> - NAVY SHIPBOARD AND NAVY AIRBORNE ONLY

BIT DESIGNATION

0-15 TSR I PARAMETER FOR OWN TERMINAL AS USED IN INDEXED COORDINATED CONTENTION (ICC) ALGORITHM FOR THE CURRENT REALLOCATION PERIOD (SEE TABLE XLVIII-B OF Y240M798A0100 FOR NAVY AIR, AND XLVII-B OF Y240M822A0100 FOR NAVY SHIP)

40.5.28.6 TSR K Parameter (Block 33, Word 9). - NAVY SHIPBOARD AND NAVY AIRBORNE ONLY

BIT DESIGNATION

- 0-15 TSR K PARAMETER FOR OWN TERMINAL AS USED IN INDEXED COORDINATED CONTENTION (ICC) ALGORITHM FOR THE CURRENT REALLOCATION PERIOD (SEE TABLE XLVIII-C OF Y240M798A0100 FOR NAVY AIR, AND XLVII-C OF Y240M822A0100 FOR NAVY SHIP)
- 40.5.28.7 TSR N Parameter (Block 33, Word 10). NAVY SHIPBOARD AND NAVY AIRBORNE ONLY

<u>BIT</u> <u>DESIGNATI</u>ON

- 0-15 TSR N PARAMETER FOR OWN TERMINAL AS USED IN INDEXED COORDINATED CONTENTION (ICC) ALGORITHM FOR THE CURRENT REALLOCATION PERIOD (SEE 3.2.9.2.9 OF Y240M798A0100 AND/OR Y240M822A0100)
- 40.5.29 TSR Basic Blocks Selected Number 1 (Other Terminals). (Block 34, Words 3-32) Format of Status Block 34 is identical to that of Status Block 32. NAVY SHIPBOARD AND NAVY AIRBORNE ONLY
 - LOGIC 0 = Basic Block not selected for transmit by a terminal which chose prior to own terminal.
 - LOGIC 1 = Basic Block selected for transmit by a terminal which chose prior to own terminal.
 - NOTE: STATUS BLOCKS 34 AND 35 ARE NOT USED IF THE TERMINALS WITH RECEIVE COUNT LEVEL LESS THAN OWN TERMINAL'S RECEIVE COUNT LEVEL HAVE BEEN ALLOCATED ALL THE BASIC BLOCKS.
- 40.5.30 TSR Basic Blocks Selected Number 2 (Other Terminals). (Block 35, Words 3-4) Format of Status Block 35 is identical to that of Status Block 33, words 3 and 4. NAVY SHIPBOARD AND NAVY AIRBORNE ONLY
 - LOGIC 0 = Basic Block not selected for transmit by a terminal which chose prior to own terminal.
 - LOGIC 1 = Basic Block selected for transmit by a terminal which chose prior to own terminal.